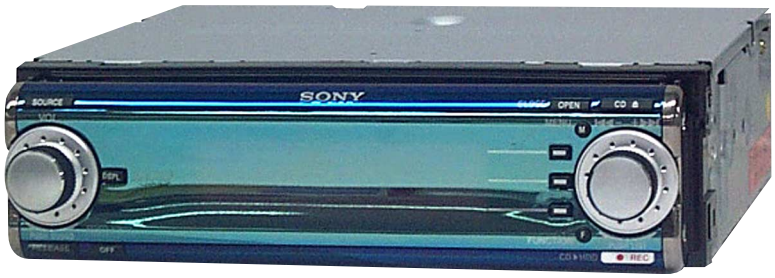
MEX-1HD

SERVICE MANUAL

Ver 1.0 2002.09

AEP Model
UK Model
Hong Kong Model



Model Name Using Similar Mechanism	NEW
CD Drive Mechanism Type	MG-550D-156
Optical Block Name	CDM-3021EBG
Optical Pick-up Name	DAX-21EG

SPECIFICATIONS

CD Player section

Signal-to-noise ratio	90 dB
Frequency response	10 – 20,000 Hz

"MG Memory Stick" section

Signal-to-noise ratio	90 dB
Frequency response	10 – 20,000 Hz
Recording time (when using the 64MB "MagicGate Memory Stick")	
	Approx. 60 min. (132kbps)
	Approx. 80 min. (105kbps)
Recording format	Adaptive Transform Acoustic Coding 3 (ATRAC3)

HDD section

Capacity	16 GB
Recording format	Adaptive Transform Acoustic Coding 3 (ATRAC3)
Frequency response	10 to 20,000 Hz (single signal measurement)

Tuner section

FM

Tuning range	87.5 – 108.0 MHz
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Usable sensitivity	8 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	66 dB (stereo), 72 dB (mono)
Harmonic distortion at 1 kHz	
	0.6 % (stereo), 0.3 % (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz

MW/LW

Tuning range	MW: 531 – 1,602 kHz LW: 153 – 279 kHz
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	MW: 30 µV LW: 40 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	45 W × 4 (at 4 ohms)

General

Outputs	Audio outputs (front/rear) Subwoofer output (mono) Power aerial relay control terminal Power amplifier control terminal
Inputs	Telephone ATT control terminal Illumination control terminal AUX IN terminal Aerial input terminal
Tone controls	Bass ±8 dB at 100 Hz Treble ±8 dB at 10 kHz
Loudness	+8 dB at 100 Hz +2 dB at 10 kHz
Power requirements	12 V DC car battery (negative earth)
Dimensions	Approx. 178 × 50 × 182 mm (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 161 mm (w/h/d)
Mass	Approx. 2.0 kg
Supplied accessories	Parts for installation and connections (1 set) Front panel case (1) Cleaning cloth (1) Digital I/O cable (1) CDDB Install CD-ROM (1)

Note

This unit cannot be connected to a digital preamplifier or an equaliser.

Design and specifications are subject to change without notice.

AUDIO LIBRARY SYSTEM

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e Vehicle Company
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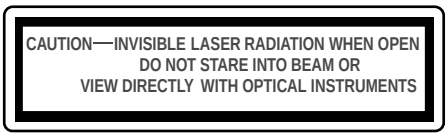
Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

This label is located on the bottom of the chassis.



This label is located on the drive unit's internal chassis.

Notes

- *The recorded music is limited to private use only. Use of the music beyond this limit requires permission of the copyright holders.*
- *Sony is not responsible for music files that are not saved on this unit due to unsuccessful recording from CD or music downloading.*
- *Sony is not responsible for any files that are damaged or erased from the hard disc.*

Notes on CD-Rs (recordable CDs)/CD-RWs (rewritable CDs)

This unit can play the following discs:

Type of discs	Label on the disc
Audio CD	COMPACT disc DIGITAL AUDIO Recordable COMPACT disc DIGITAL AUDIO ReWritable
MP3 files	COMPACT disc DIGITAL AUDIO Recordable COMPACT disc DIGITAL AUDIO ReWritable COMPACT disc Recordable COMPACT disc ReWritable

- Some CD-Rs/CD-RWs (depending on the equipment used for its recording or the condition of the disc) may not play on this unit.
- You cannot play a CD-R/CD-RW that is not finalized*.
- You can play MP3 files recorded on CD-ROMs, CD-Rs, and CD-RWs.
- A CD-R/CD-RW to which a session can be added can be played.
- Contents on audio CD-Rs/CD-RWs cannot be recorded onto the HDD of this unit due to copyright protection.

** A process necessary for a recorded CD-R/CD-RW disc to be played on the audio CD player.*

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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Notes on MP3 files

MP3 (MPEG 1 Audio Layer-3) is a standard technology and format for compressing a sound sequence. The file is compressed to about 1/10 of its original size. Sounds outside the range of human hearing are compressed while the sounds we can hear are not compressed.

Notes on discs

You can play MP3 files recorded on CD-ROMs, CD-Rs, and CD-RWs.
The disc must be in the ISO 9660*1 level 1 or level 2 format, or Joliet or Romeo in the expansion format.
You can use a disc recorded in Multi Session*2.

*1 **ISO 9660 Format**
The most common international standard for the logical format of files and folders on a CD-ROM.
There are several specification levels. In Level 1, file names must be in the 8.3 format (no more than 8 characters in the name, no more than 3 characters in the extension ".MP3") and in capital letters. Folder names can be no longer than 8 characters. There can be no more than 8 nested folder levels. Level 2 specifications allow file names up to 31 characters long.
Each folder can have up to 8 trees.
For Joliet or Romeo in the expansion format, make sure of the contents of the writing software, etc.

*2 **Multi Session**
This is a recording method that enables adding of data using the Track-At-Once method. Conventional CDs begin at a CD control area called the Lead-in and end at an area called Lead-out. A Multi Session CD is a CD having multiple sessions, with each segment from Lead-in to Lead-out regarded as a single session.
CD-Extra: The format which records audio (audio CD data) as tracks on session 1, and records data as tracks on session 2.
Mixed CD: In this format, data is recorded as track, and audio (audio CD data) is recorded as track 2.

Notes

- *With formats other than ISO 9660 level 1 and level 2, folder names or file names may not be displayed correctly.*
- *When naming, be sure to add the file extension ".MP3" to the file name.*
- *If you put the extension ".MP3" to a file other than MP3, the unit cannot recognise the file properly and will generate random noise that could damage your speakers.*
- *The following discs take a longer time to start playback.*
  – a disc recorded with a complicated tree structure.
  – a disc recorded in Multi Session.
  – a disc to which data can be added.

Cautions when playing a disc that is recorded in Multi Session

- *When the first track of the first session is audio CD data:*
  Only audio CD data is played back.
- *When the first track of the first session is not audio CD data:*
  – If an MP3 file is in the disc, only MP3 file(s) play back and other data is skipped. (Audio CD data is not recognised.)
  – If no MP3 file is in the disc, "NO Music" is displayed and nothing is played back. (Audio CD data is not recognised.)

SECTION 1
SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

SETUP AFTER PARTS REPLACEMENT

This set requires the work such as microcomputer software version up, system ID setting and HDD formatting, if either of flash memory, microcomputer (or mounted MAIN, SUB, or SERVO board) and hard disk drive (HDD) was replaced.
Perform the work required by referring to the “Test mode”, if either of the following parts was replaced.

Replacement parts	Version up	System ID setting and HDD processing
Flash memory (IC1030 on MAIN board) *1	○	○
Microcomputer (IC501 on SUB board) *1	○	–
Flash memory (IC9 on SERVO board) *1	○	–
HDD	–	○ *2

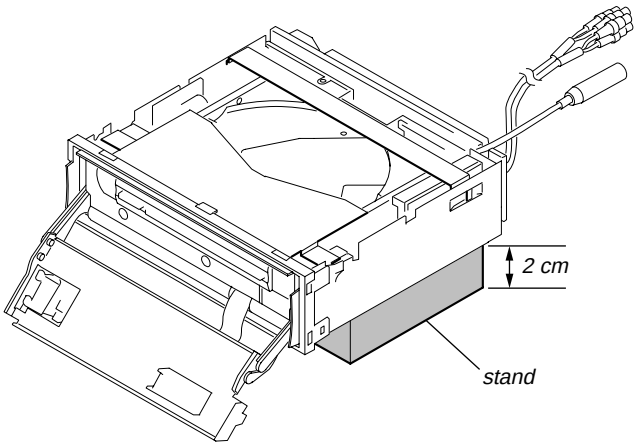
*1: Including the case where the mounted board as a whole is replaced.
*2: Executing the HDD formatting causes the user’s recorded data to be all erased, and therefore be careful not to execute this operation by mistake if the HDD was not replaced.

Version up:
Refer to “Version Up After Microcomputer Software Related Parts Replacement”.
System ID setting and HDD processing:
Refer to “Relating with ID”.

NOTE FOR THE OPENING OF THE FRONT PANEL

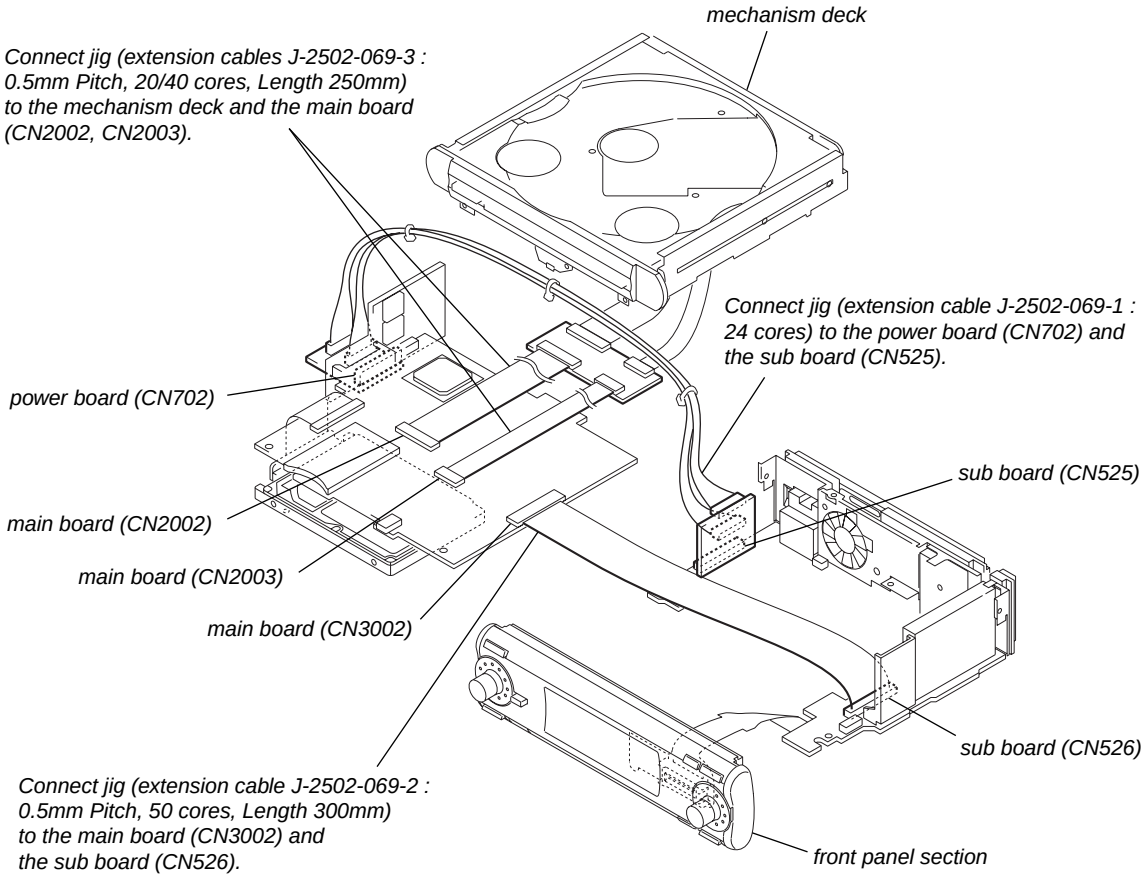
In this set, the front panel is lowered to below the bottom face when it is opened.

When servicing the set, place it on a stand having a height of about 2 cm.



JIG ON REPAIRING

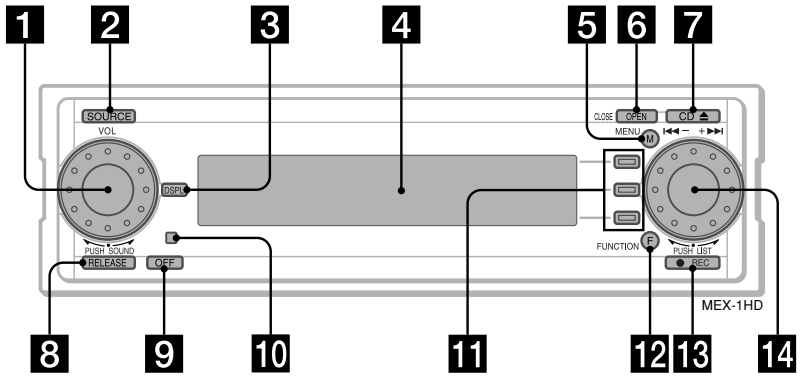
When repairing this set, connect the extension cables as the figure shown below.


mechanism deck
Connect jig (extension cables J-2502-069-3 : 0.5mm Pitch, 20/40 cores, Length 250mm) to the mechanism deck and the main board (CN2002, CN2003).
Connect jig (extension cable J-2502-069-1 : 24 cores) to the power board (CN702) and the sub board (CN525).
power board (CN702)
sub board (CN525)
main board (CN2002)
main board (CN2003)
main board (CN3002)
sub board (CN526)
Connect jig (extension cable J-2502-069-2 : 0.5mm Pitch, 50 cores, Length 300mm) to the main board (CN3002) and the sub board (CN526).
front panel section

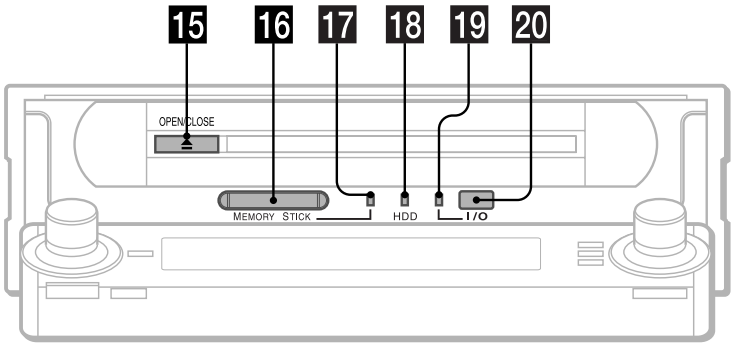
SECTION 2
GENERAL

This section is extracted from instruction manual.

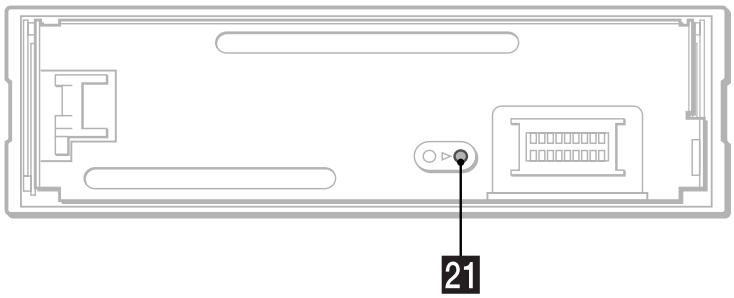
Location of controls



When the front panel is opened



When the front panel is removed



1 L (left) dial
Rotate to:
– Adjust the volume
– Select a sound item
Press to:
– Display the sound menu
– Enter a setting
– Cancel the list display

2 SOURCE button
To select the source.

3 DSPL button

4 Display window

5 MENU button
To display the menus.

6 OPEN (CLOSE) button

7 CD ⏏ (eject) button

8 RELEASE button

9 OFF (Stop/Power off) button*

10 Receptor for remote commander

11 F1/F2/F3 buttons
These buttons have different functions depending on the situation.

12 FUNCTION button
To change the function menu.

13 ● REC button
For record settings/to start recording.

14 R (right) dial
Rotate to:
– Receive preset stations
– Skip tracks
– Select a menu item
Press to:
– Display the list
– Enter a setting

15 ⏏ (OPEN/CLOSE)

16 "MG Memory Stick" Slot

17 LED ("MG Memory Stick")
Lights up while the unit is accessing the "MG Memory Stick."

18 LED (HDD)
Lights up while the unit is accessing the HDD.

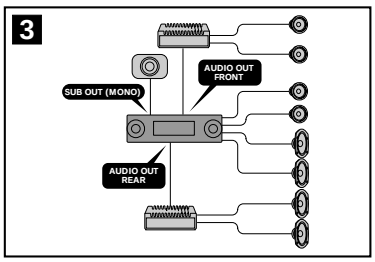
19 LED (I/O)
Lights up while the unit is accessing the Digital I/O.

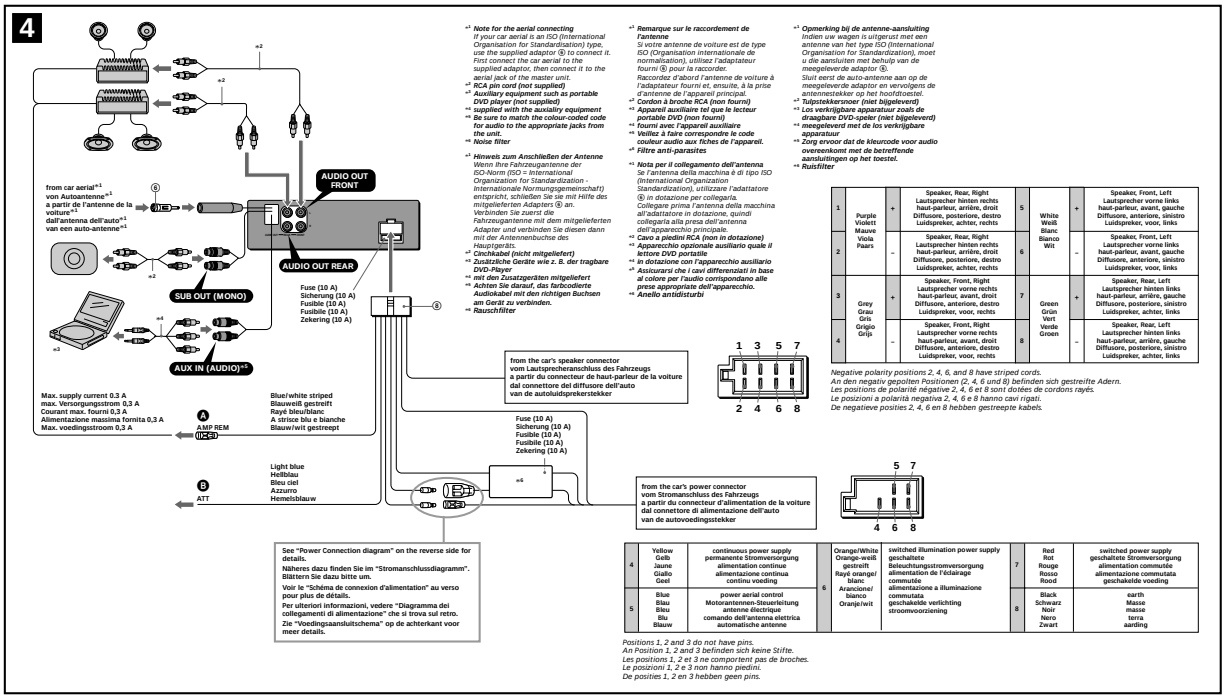
20 Digital I/O terminal (4 pins)
To connect to the Network Walkman, etc.

21 RESET button

* **Warning when installing in a car without an ACC (accessory) position on the ignition switch**
After turning off the ignition, be sure to press (OFF) on the unit for 2 seconds to turn off the clock display.
Otherwise, the clock display does not turn off and causes battery drain.

MEX-1HD




4
AUDIO OUT FRONT
AUDIO OUT REAR
SUB OUT (MONO)
AUX IN (AUDIO)
from car aerial
von Autoantenne
a partir de l'antenne de la voiture
dall'antenna dell'auto
van een auto-antenne
Fuse (10 A)
Sicherung (10 A)
Fusible (10 A)
Fusibile (10 A)
Zekering (10 A)
Max. supply current 0.3 A
max. Versorgungsstrom 0,3 A
Courant max. fourni 0,3 A
Alimentazione massima fornita 0,3 A
Max. voedingsstroom 0,3 A
AMP REM
ATT
Blue/white striped
Blauweiß gestreift
Rayé bleu/blanc
A strisce blu e bianche
Blauw/wit gestreept
Light blue
Hellblau
Bleu ciel
Azzurro
Hemelsblauw
from the car's speaker connector
vom Lautsprecheranschluss des Fahrzeugs
a partir du connecteur de haut-parleur de la voiture
dal connettore del diffusore dell'auto
van de autoluidsprekerstekker
from the car's power connector
vom Stromanschluss des Fahrzeugs
a partir du connecteur d'alimentation de la voiture
dal connettore di alimentazione dell'auto
van de autovoedingsstekker
See "Power Connection diagram" on the reverse side for details.
Näheres dazu finden Sie im "Stromanschlussdiagramm". Blättern Sie dazu bitte um.
Voir le "Schéma de connexion d'alimentation" au verso pour plus de détails.
Per ulteriori informazioni, vedere "Diagramma dei collegamenti di alimentazione" che si trova sul retro.
Zie "Voedingsaansluitschema" op de achterkant voor meer details.

*¹ **Note for the aerial connecting***
If your car aerial is an ISO (International Organisation for Standardisation) type, use the supplied adaptor Ⓑ to connect it. First connect the car aerial to the supplied adaptor, then connect it to the aerial jack of the master unit.
*² **RCA pin cord (not supplied)***
*³ **Auxiliary equipment such as portable DVD player (not supplied)***
*⁴⁾ **supplied with the auxiliary equipment***
*⁵ **Be sure to match the colour-coded cord for audio to the appropriate jacks from the unit.***
*⁶ **Noise filter***

*¹ **Hinweis zum Anschließen der Antenne***
Wenn Ihre Fahrzeugantenne der ISO-Norm (ISO = International Organization for Standardization - Internationale Normungsgemeinschaft) entspricht, schließen Sie sie mit Hilfe des mitgelieferten Adapters Ⓑ an. Verbinden Sie zuerst die Fahrzeugantenne mit dem mitgelieferten Adapter und verbinden Sie diesen dann mit der Antennenbuchse des Hauptgeräts.
*² **Cinchkabel (nicht mitgeliefert)***
*³ **Zusätzliche Geräte wie z. B. der tragbare DVD-Player***
*⁴⁾ **mit den Zusatzgeräten mitgeliefert***
*⁵ **Achten Sie darauf, das farbcodierte Audiokabel mit den richtigen Buchsen am Gerät zu verbinden.***
*⁶ **Rauschfilter***

*¹ **Remarque sur le raccordement de l'antenne***
Si votre antenne de voiture est de type ISO (Organisation internationale de normalisation), utilisez l'adaptateur fourni Ⓑ pour la raccorder. Raccordez d'abord l'antenne de voiture à l'adaptateur fourni et, ensuite, à la prise d'antenne de l'appareil principal.
*² **Cordon à broche RCA (non fourni)***
*³ **Appareil auxiliaire tel que le lecteur portable DVD (non fourni)***
*⁴⁾ **fourni avec l'appareil auxiliaire***
*⁵ **Veillez à faire correspondre le code couleur audio aux fiches de l'appareil.***
*⁶ **Filtre anti-parasites***

*¹ **Nota per il collegamento dell'antenna***
Se l'antenna della macchina è di tipo ISO (International Organization Standardization), utilizzare l'adattatore Ⓑ in dotazione per collegarla. Collegare prima l'antenna della macchina all'adattatore in dotazione, quindi collegarla alla presa dell'antenna dell'apparecchio principale.
*² **Cavo a spinotti RCA (non in dotazione)***
*³ **Apparecchio opzionale ausiliario quale il lettore DVD portatile***
*⁴⁾ **in dotazione con l'apparecchio ausiliario***
*⁵ **Assicurarsi che i cavi differenziati in base al colore per l'audio corrispondano alle prese appropriate dell'apparecchio.***
*⁶ **Anello antidisturbi***

*¹ **Opmerking bij de antenne-aansluiting***
Indien uw wagen is uitgerust met een antenne van het type ISO (International Organisation for Standardization), moet u die aansluiten met behulp van de meegeleverde adaptor Ⓑ. Sluit eerst de auto-antenne aan op de meegeleverde adaptor en vervolgens de antennestekker op het hoofdtoestel.
*² **Tulpstekkersnoer (niet bijgeleverd)***
*³ **Los verkrijgbare apparatuur zoals de draagbare DVD-speler (niet bijgeleverd)***
*⁴⁾ **meegeleverd met de los verkrijgbare apparatuur***
*⁵ **Zorg ervoor dat de kleurcode voor audio overeenkomt met de betreffende aansluitingen op het toestel.***
*⁶ **Ruisfilter***

1	Purple Violett Mauve Viola Paars	+	Speaker, Rear, Right Lautsprecher hinten rechts haut-parleur, arrière, droit Diffusore, posteriore, destro Luidspreker, achter, rechts	5	White Weiß Blanc Bianco Wit	+	Speaker, Front, Left Lautsprecher vorne links haut-parleur, avant, gauche Diffusore, anteriore, sinistro Luidspreker, voor, links
2		–	Speaker, Rear, Right Lautsprecher hinten rechts haut-parleur, arrière, droit Diffusore, posteriore, destro Luidspreker, achter, rechts	6		–	Speaker, Front, Left Lautsprecher vorne links haut-parleur, avant, gauche Diffusore, anteriore, sinistro Luidspreker, voor, links
3	Grey Grau Gris Grigio Grijs	+	Speaker, Front, Right Lautsprecher vorne rechts haut-parleur, avant, droit Diffusore, anteriore, destro Luidspreker, voor, rechts	7	Green Grün Vert Verde Groen	+	Speaker, Rear, Left Lautsprecher hinten links haut-parleur, arrière, gauche Diffusore, posteriore, sinistro Luidspreker, achter, links
4		–	Speaker, Front, Right Lautsprecher vorne rechts haut-parleur, avant, droit Diffusore, anteriore, destro Luidspreker, voor, rechts	8		–	Speaker, Rear, Left Lautsprecher hinten links haut-parleur, arrière, gauche Diffusore, posteriore, sinistro Luidspreker, achter, links

Negative polarity positions 2, 4, 6, and 8 have striped cords.
An den negativ gepolten Positionen (2, 4, 6 und 8) befinden sich gestreifte Adern.
Les positions de polarité négative 2, 4, 6 et 8 sont dotées de cordons rayés.
Le posizioni a polarità negativa 2, 4, 6 e 8 hanno cavi rigati.
De negatieve posities 2, 4, 6 en 8 hebben gestreepte kabels.

4	Yellow Gelb Jaune Giallo Geel	continuous power supply permanente Stromversorgung alimentation continue alimentazione continua continu voeding	6	Orange/White Orange-weiß gestreift Rayé orange/blanc Arancione/bianco Oranje/wit	switched illumination power supply geschaltete Beleuchtungsstromversorgung alimentation de l'éclairage commutée alimentazione a illuminazione commutata geschakelde verlichting stroomvoorziening	7	Red Rot Rouge Rosso Rood	switched power supply geschaltete Stromversorgung alimentation commutée alimentazione commutata geschakelde voeding
5	Blue Blau Bleu Blu Blauw	power aerial control Motorantennen-Steuerleitung antenne électrique comando dell'antenna elettrica automatische antenne				8	Black Schwarz Noir Nero Zwart	earth Masse masse terra aarding

Positions 1, 2 and 3 do not have pins.
An Position 1, 2 and 3 befinden sich keine Stifte.
Les positions 1, 2 et 3 ne comportent pas de broches.
Le posizioni 1, 2 e 3 non hanno piedini.
De posities 1, 2 en 3 hebben geen pins.

Cautions

- This unit is designed for negative earth 12 V DC operation only.
- Do not get the wires under a screw, or caught in moving parts (e.g. seat railing).
- Before making connections, turn the car ignition off to avoid short circuits.
- Connect the power connecting cord Ⓔ to the unit and speakers before connecting it to the auxiliary power connector.
- **Run all earth wires to a common earth point.**
- Be sure to insulate any loose unconnected wires with electrical tape for safety.

Notes on the power supply cord (yellow)

- When connecting this unit in combination with other stereo components, the connected car circuit's rating must be higher than the sum of each component's fuse.
- When no car circuits are rated high enough, connect the unit directly to the battery.

Before installation (1)

Do not install the unit where its operation interferes with driving.
Example:
— Opening and closing of the front panel or disc tray interfere with operation of the gear shift.
— With the front panel open, operation of hazard lamps, switches etc., is impaired.

Parts list (2)

The numbers in the list are keyed to those in the instructions.

Caution
Handle the bracket ① carefully to avoid injuring your fingers.

Connection example (3)

Note
Be sure to connect the earth cord before connecting the amplifier.

Connection diagram (4)

Ⓐ To AMP REMOTE IN of an optional power amplifier
This connection is only for amplifiers. Connecting any other system may damage the unit.
Ⓑ To the interface cable of a car telephone

Warning
If you have a power aerial without a relay box, connecting this unit with the supplied power connecting cord Ⓔ may damage the aerial.

Notes on the control leads

- *The power aerial control lead (blue) supplies +12 V DC when you turn on the tuner or when you activate the AF (Alternative Frequency), TA (Traffic Announcement) function.*
- *When your car has built-in FM/MW/LW aerial in the rear/side glass, connect the power aerial control lead (blue) or the accessory power input lead (red) to the power terminal of the existing aerial booster. For details, consult your dealer.*
- *A power aerial without a relay box cannot be used with this unit.*

Memory hold connection
When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Notes on speaker connection

- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not connect the earth lead of this unit to the negative (–) terminal of the speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*
- *To avoid a malfunction, do not use the built-in speaker wires installed in your car if the unit shares a common negative (–) lead for the right and left speakers.*
- *Do not connect the unit's speaker cords to each other.*

Vorsicht

- Dieses Gerät ist ausschließlich für den Betrieb bei 12 V Gleichstrom mit negativer Erdung bestimmt.
- Achten Sie darauf, dass die Kabel nicht unter einer Schraube oder zwischen beweglichen Teilen wie z. B. in einer Sitzschiene eingeklemmt werden.
- Schalten Sie, bevor Sie irgendwelche Anschlüsse vornehmen, die Zündung des Fahrzeugs aus, um Kurzschlüsse zu vermeiden.
- Verbinden Sie das Stromversorgungskabel Ⓔ mit dem Gerät und den Lautsprechern, bevor Sie es mit dem Hilfsstromanschluss verbinden.
- **Schließen Sie alle Erdungskabel an einen gemeinsamen Massepunkt an.**
- Aus Sicherheitsgründen müssen alle losen, nicht angeschlossenen Drähte mit Isolierband isoliert werden.

Hinweise zum Stromversorgungskabel (gelb)

- Wenn Sie dieses Gerät zusammen mit anderen Stereokomponenten anschließen, muss der Autostromkreis, an den die Geräte angeschlossen sind, eine höhere Leistung aufweisen als die Summe der Sicherungen der einzelnen Komponenten.
- Wenn kein Autostromkreis eine so hohe Leistung aufweist, schließen Sie das Gerät direkt an die Batterie an.

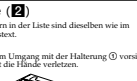
Vorbereitungen zur Installation (1)

Installieren Sie das Gerät nicht an einer Stelle, an der es beim Fahren hinderlich ist.
Beispiele:
— Achten Sie darauf, dass Frontplatte und CD-Fach geöffnet und geschlossen werden können, ohne den Fahrer bei der Bedienung des Schalthebels zu behindern.
— Achten Sie darauf, dass sich auch bei geöffneter Frontplatte die Warnblinkanlage und sonstige Schalter usw. ohne Behinderung bedienen lassen.

Teileliste (2)

Die Nummern in der Liste sind dieselben wie im Erläuterungstext.

Vorsicht
Seien Sie beim Umgang mit der Halterung ① vorsichtig, damit Sie sich nicht die Hände verletzen.



Anschlussbeispiel (3)

Hinweis
Schließen Sie unbedingt zuerst das Massekabel an, bevor Sie den Verstärker anschließen.

Anschlussdiagramm (4)

Ⓐ An AMP REMOTE IN des gesondert erhältlichen Endverstärkers
Dieser Anschluss ist ausschließlich für Verstärker gedacht. Schließen Sie nichts anderes daran an. Andernfalls kann das Gerät beschädigt werden.
Ⓑ An Schnittstellenkabel eines Autotelefons

Warnung
Wenn Sie eine Motorantenne ohne Relaiskästchen verwenden, kann durch Anschließen dieses Geräts mit dem mitgelieferten Stromversorgungskabel Ⓔ die Antenne beschädigt werden.

Hinweise zu den Steuerleitungen

- *Die Motorantennen-Steuerleitung (blau) liefert + 12 V Gleichstrom, wenn Sie den Tuner einschalten oder die AF- (Alternativfrequenzen) oder die TA-Funktion (Verkehrsdurchsagen) aktivieren.*
- *Wenn das Fahrzeug mit einer in der Heck-/Seitenfensterscheibe integrierten FM (UKW)/MW/LW-Antenne ausgestattet ist, schließen Sie die Motorantennen-Steuerleitung (blau) oder die Zubehörstromversorgungsleitung (rot) an den Stromversorgungsanschluss des vorhandenen Antennenverstärkers an. Näheres dazu erfahren Sie bei Ihrem Händler.*
- *Es kann nur eine Motorantenne mit Relaiskästchen angeschlossen werden.*

Stromversorgung des Speichers
Wenn das gelbe Stromversorgungskabel angeschlossen ist, wird der Speicher stets (auch bei ausgeschalteter Zündung) mit Strom versorgt.

Hinweise zum Lautsprecheranschluss

- *Schalten Sie das Gerät aus, bevor Sie die Lautsprecher anschließen.*
- *Verwenden Sie Lautsprecher mit einer Impedanz zwischen 4 und 8 Ohm und ausreichender Belastbarkeit. Ansonsten können die Lautsprecher beschädigt werden.*
- *Verbinden Sie die Lautsprecheranschlüsse nicht mit dem Wagenchassis und verbinden Sie auch nicht die Anschlüsse des rechten mit denen des linken Lautsprechers.*
- *Verbinden Sie die Masseleitung dieses Geräts nicht mit dem negativen (–) Lautsprecheranschluss.*
- *Versuchen Sie nicht, Lautsprecher parallel anzuschließen.*
- *An die Lautsprecheranschlüsse dieses Geräts dürfen nur Passivlautsprecher angeschlossen werden. Schließen Sie keine Aktivlautsprecher (Lautsprecher mit eingebauten Verstärkern) an, da diese sonst beschädigt werden können.*
- *Um Fehlfunktionen zu vermeiden, verwenden Sie nicht die im Fahrzeug installierten, integrierten Lautsprecherleitungen, wenn am Ende eine gemeinsame negative (–) Leitung für den rechten und den linken Lautsprecher verwendet wird.*
- *Verbinden Sie nicht die Lautsprecherkabel des Geräts miteinander.*

Précautions

- Cet appareil est conçu pour fonctionner sur courant continu de 12 V avec masse négative.
- Evitez de fixer des vis sur les câbles ou de coincer ceux-ci dans des pièces mobiles (par exemple, armature de siège).
- Avant d'effectuer des raccordements, éteignez le moteur pour éviter les courts-circuits.
- Branchez le cordon d'alimention Ⓔ sur l'appareil et les haut-parleurs avant de le brancher sur le connecteur d'alimentation auxiliaire.
- **Rassemblez tous les fils de terre en un point de masse commun.**
- Pour plus de sécurité, veillez à isoler avec du chatterton tout fil lâche non raccordé.

Remarques sur le cordon d'alimentation (jaune)

- Lorsque cet appareil est raccordé à d'autres appareils sélérés, la valeur nominale des circuits de la voiture raccordée doit être supérieure à la somme des fusibles de chaque appareil.
- Si aucun circuit de la voiture n'est assez puissant, raccordez directement l'appareil à la batterie.

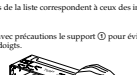
Avant l'installation (1)

N'installez pas l'appareil dans un endroit où il pourrait gêner le conducteur dans ses mouvements.
Exemple :
— dans un endroit où l'ouverture et la fermeture de la façade ou du plateau de disque pourraient nuire aux changements de vitesse ;
— dans un endroit où l'ouverture de la façade pourrait bloquer l'accès à l'interrupteur de feux de détresse et aux autres commandes.

Liste des composants (2)

Les numéros de la liste correspondent à ceux des instructions.

Attention
Manipulez avec précautions le support ① pour éviter de vous blesser aux doigts.



Exemple de raccordement (3)

Remarque
Raccordez d'abord le fil de masse avant de raccorder l'amplificateur.

Schéma de raccordement (4)

Ⓐ Vers AMP REMOTE IN d'un amplificateur de puissance en option
Ce raccordement existe seulement pour les amplificateurs. Le raccordement à tout autre système peut endommager l'appareil.
Ⓑ Vers le câble d'interface d'un téléphone de voiture

Avertissement
Si vous disposez d'une antenne électrique sans boîtier de relais, le branchement de cet appareil au moyen du cordon d'alimentation fourni Ⓔ risque d'endommager l'antenne.

Remarques sur les fils de commande

- *Le fil de commande (bleu) de l'antenne électrique assure une alimentation de +12 V CC lorsque vous mettez la radio sous tension ou lorsque vous activez la fonction AF (fréquence secondaire) ou TA (messages de radioguidage).*
- *Lorsque votre voiture est équipée d'une antenne FM/MW/LW intégrée dans la vitre arrière/latérale, raccordez le fil de commande de l'antenne (bleu) ou le fil d'entrée d'alimentation des accessoires (rouge) à la borne de l'amplificateur d'antenne existant. Pour plus de détails, consultez votre revendeur.*
- *Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.*

Raccordement pour la conservation de la mémoire
Lorsque le fil d'entrée d'alimentation jaune est raccordé, le circuit de la mémoire est alimenté en permanence même si la clé de contact est sur la position d'arrêt.

Remarques sur le raccordement des haut-parleurs

- *Avant de raccorder les haut-parleurs, mettez l'appareil hors tension.*
- *Utilisez des haut-parleurs ayant une impédance de 4 à 8 ohms avec une capacité de manipulation adéquate pour éviter de les endommager.*
- *Ne raccordez pas les bornes du système de haut-parleurs au châssis de la voiture et ne raccordez pas les bornes du haut-parleur droit à celles du haut-parleur gauche.*
- *Ne raccordez pas le câble de masse de cet appareil à la borne négative (–) du haut-parleur.*
- *N'essayez pas de raccorder les haut-parleurs en parallèle.*
- *Raccordez uniquement des haut-parleurs passifs. Le raccordement de haut-parleurs actifs (avec amplificateurs intégrés) aux bornes des haut-parleurs peut endommager l'appareil.*
- *Pour éviter tout dysfonctionnement, n'utilisez pas les fils des haut-parleurs intégrés installés dans votre voiture si l'appareil partage un fil négatif commun (–) pour les haut-parleurs droit et gauche.*
- *Ne raccordez pas entre eux les cordons des haut-parleurs de l'appareil.*

Attenzione

- Questo apparecchio è stato progettato per l'uso solo a 12 V CC con massa negativa.
- Evitare che i cavi rimangano bloccati da una vite o incastrati nelle parti mobili (ad esempio nelle guide scorrevoli dei sedili).
- Prima di effettuare i collegamenti, spegnere il motore dell'automobile onde evitare di causare cortocircuiti.
- Collegare il cavo di collegamento dell'alimentazione Ⓔ all'apparecchio e ai diffusori prima di collegarlo al connettore di alimentazione ausiliare.
- **Portare tutti i cavi di massa a un punto di massa comune.**
- Per sicurezza, assicurarsi di isolare qualsiasi cavo non collegato mediante apposito nastro.

Note sul cavo di alimentazione (giallo)

- Se questo apparecchio viene collegato con altri componenti stereo, la potenza nominale dei circuiti dell'automobile deve essere superiore a quella prodotta dalla somma dei fusibili di ciascun componente.
- Se la potenza nominale dei circuiti dell'automobile non è sufficiente, collegare l'apparecchio direttamente alla batteria.

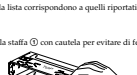
Prima di installare l'apparecchio (1)

Evitare di installare l'apparecchio in luoghi nei quali potrebbe interferire con la guida dell'auto.
Esempio:
— L'apertura e la chiusura del pannello anteriore o del vassoio per i dischi interferiscono con il funzionamento del cambio.
— Quando il pannello anteriore è aperto, il funzionamento delle spie di avvertimento, degli interruttori e così via viene ostacolato.

Elenco dei componenti (2)

I numeri nella lista corrispondono a quelli riportati nelle istruzioni.

Attenzione
Maneggiare la staffa ① con cautela per evitare di ferirsi le mani.



Esempio di collegamento (3)

Nota
Assicurarsi di collegare il cavo di terra prima di collegare l'apparecchio all'amplificatore.

Schema di collegamento (4)

Ⓐ A AMP REMOTE IN di un amplificatore di potenza opzionale
Questo collegamento è riservato esclusivamente agli amplificatori. Non collegare un tipo di sistema diverso onde evitare di causare danni all'apparecchio.
Ⓑ Al cavo interfaccia di un telefono per auto

Avvertenza
Quando si collega l'apparecchio con il cavo di collegamento dell'alimentazione in dotazione Ⓔ, si potrebbe danneggiare l'antenna elettrica se questa non ha la scatola di relè.

Note sui cavi di controllo

- *Il cavo di controllo dell'antenna elettrica (blu) fornisce corrente continua +12 V CC quando si accende il sintonizzatore o quando si attiva la funzione AF (frequenza alternativa) o TA (notiziario sul traffico).*
- *Se l'automobile è dotata di antenna FM/MW/LW incorporata nel vetro posteriore/laterale, collegare il cavo (blu) di controllo dell'antenna elettrica o il cavo (rosso) di ingresso dell'alimentazione opzionale al terminale di alimentazione del preamplificatore dell'antenna esistente. Per ulteriori informazioni, consultare il proprio fornitore.*
- *Non è possibile usare un'antenna elettrica senza scatola a relè con questo apparecchio.*

Collegamento per la conservazione della memoria
Quando il cavo di ingresso alimentazione giallo è collegato, viene sempre fornita alimentazione al circuito di memoria anche quando la chiavetta di accensione è spenta.

Note sul collegamento dei diffusori

- *Prima di collegare i diffusori spegnere l'apparecchio.*
- *Usare diffusori di impedenza compresa tra 4 e 8 ohm e con capacità di potenza adeguata, altrimenti i diffusori potrebbero venir danneggiati.*
- *Non collegare i terminali del sistema diffusori al telaio dell'auto e non collegare i terminali del diffusore destro a quelli del diffusore sinistro.*
- *Non collegare il cavo di terra di questo apparecchio al terminale negativo (–) del diffusore.*
- *Non collegare i diffusori in parallelo.*
- *Non collegare alcun diffusore attivo (con amplificatore incorporato) ai terminali dei diffusori dell'apparecchio perché si potrebbero danneggiare i diffusori attivi. Asicurarsi di collegare diffusori passivi a questi terminali.*
- *Per evitare problemi di funzionamento, non utilizzare i cavi dei diffusori incorporati installati nell'automobile se il terminale dell'apparecchio condivide un cavo comune negativo (–) per i diffusori destro e sinistro.*
- *Non collegare fra loro i cavi dei diffusori dell'apparecchio.*

Let op!

- Dit apparaat is ontworpen voor gebruik op gelijkstroom van een 12 Volts auto-accu, negatief geaard.
- Zorg ervoor dat de draden niet onder een schroef of tussen bewegende onderdelen (b.v. zetelrail) terechtkomen.
- Alvorens aansluitingen te verrichten moet u het contact afzetten om kortsluiting te vermijden.
- Sluit het netsnoer Ⓔ aan op het toestel en de luidsprekers vooraleer u het op de hulpvoedingsaansluiting aansluit.
- **Sluit alle aarddraden op een gemeenschappelijk aardpunt aan.**
- Voorzie niet aangesloten draden om veiligheidsredenen altijd van isolatietape.

Opmerkingen bij de voedingskabel (geel)

- Wanneer u dit toestel aansluit samen met andere componenten, moet het vermogen van de aangesloten autostroomkring groter zijn dan de som van de zekeringen van elke component afzonderlijk.
- Wanneer het vermogen ontoereikend is, moet u het toestel rechtstreeks aansluiten op de batterij.

Voor het installeren (1)

Installeer het toestel niet op een plaats waar het de bestuurder kan hinderen.
Voorbeeld:
— Wanneer het frontpaneel of de disc-lade bij het openen of sluiten in contact komt met de schakelpook.
— Wanneer met geopend frontpaneel controleelampjes, schakelaars, enz. minder goed of helemaal niet zichtbaar of bedienbaar zijn.

Onderdelenlijst (2)

De nummers in de afbeelding verwijzen naar die in de montage-aanwijzingen.

Voorzichtig
Houd de beugel ① voorzichtig vast zodat u uw vingers niet verwondt.

Voorbeeldaansluitingen (3)

Opmerking
Sluit eerst de massakabel aan alvorens de versterker aan te sluiten.

Aansluitschema (4)

Ⓐ Naar AMP REMOTE IN van een los verkrijgbare vermogensversterker
Deze aansluiting is alleen bedoeld voor versterkers. Door een andere systeem aan te sluiten kan het toestel worden beschadigd.
Ⓑ Naar het interface-snoer van een autotelefoon

Opgelet
Indien u een elektrische antenne heeft zonder relaiskast, kan het aansluiten van deze eenheid met het bijgeleverde netsnoer Ⓔ de antenne beschadigen.

Opmerking betreffende de aansluitsnoeren

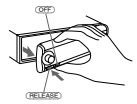
- *De voedingskabel (blauw) van de elektrisch bediende antenne levert +12V gelijkstroom wanneer u de tuner aanschakelt of de functie AF (Alternative Frequency) of TA (Traffic Announcement) activeert.*
- *Wanneer uw auto is uitgerust met een FM/MW/LW-antenne in de achterruit/voorruit, moet u de antennevoedingskabel (blauw) of de hulpvoedingskabel (rood) aansluiten op de voedingsingang van de bestaande antennenversterker. Raadpleeg uw dealer voor meer details.*
- *Met dit apparaat is het niet mogelijk een automatische antenne zonder relaishuis te gebruiken.*

Instandhouden van het geheugen
Zolang de gele stroomdraad is aangesloten, blijft de stroomvoorziening van het geheugen intact, ook wanneer het contact van de auto wordt uitgeschakeld.

Opmerkingen betreffende het aansluiten van de luidsprekers

- *Zorg dat het apparaat is uitgeschakeld, alvorens de luidsprekers aan te sluiten.*
- *Gebruik luidsprekers met een impedantie van 4 tot 8 Ohm en let op dat die het vermogen van de versterker kunnen verwerken. Als dit wordt verzuimd, kunnen de luidsprekers ernstig beschadigd raken.*
- *Verbind in geen geval de aansluitingen van de luidsprekers met het chassis van de auto en sluit de aansluitingen van de rechter en linker luidspreker niet op elkaar aan.*
- *Verbind de massakabel van dit toestel niet met de negatieve (–) aansluiting van de luidspreker.*
- *Probeer nooit de luidsprekers parallel aan te sluiten.*
- *Sluit geen actieve luidsprekers (met ingebouwde versterkers) aan op de luidspreker-aansluiting van dit apparaat. Dit zal leiden tot beschadiging van de actieve luidsprekers. Sluit dus altijd uitsluitend luidsprekers zonder ingebouwde versterker aan.*
- *Om defecten te vermijden mag u de bestaande luidsprekerbedrading in uw auto niet gebruiken wanneer er een gemeenschappelijke negatieve (–) draad is voor de rechter en linker luidsprekers.*
- *Verbind de luidsprekerdraden niet met elkaar.*

5 A



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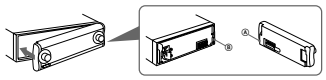

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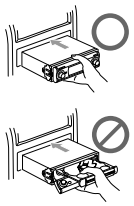
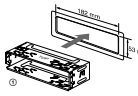
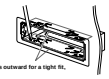


1



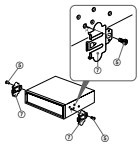
with the TOP marking up
Mit der TOP-Markierung nach oben weisend
avec l'inscription TOP vers le haut
con l'indicazione "TOP" rivolta verso l'alto
met de zijde met het woord "TOP" naar boven gericht

2

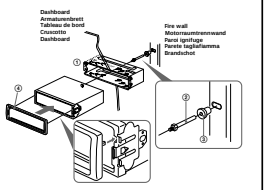


Bend these claws outward for a tight fit, if necessary.
Falls erforderlich, diese Klammern für einen sicheren Halt hochbiegen.
Pliez ces griffes vers l'extérieur pour assurer une prise correcte si nécessaire.
Piegare questi morsetti per un'installazione più sicura, se necessario.
Indien nodig kunt u deze tipjes ombuigen voor een steviger bevestiging.

3



4



Precautions

- Choose the installation location carefully so that the unit will not interfere with normal driving operations.
- Avoid installing the unit in areas subject to dust, dirt, excessive vibration, or high temperature, such as in direct sunlight or near heater ducts.
- Use only the supplied mounting hardware for a safe and secure installation.

Mounting angle adjustment
Adjust the mounting angle to less than 30°.

How to detach and attach the front panel (5)

Before installing the unit, detach the front panel.

5-A To detach
Before detaching the front panel, be sure to press OFF. Press RELEASE to open up the front panel and pull it off towards you.

5-B To attach
Attach part Ⓑ of the front panel to part Ⓐ of the unit as illustrated and push the left side into position until it clicks.

Mounting example (6)

Installation in the dashboard

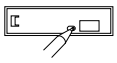
When installing this unit, be sure to close the front panel of the unit. (B→)
Do not hold the unit by its front panel or disc tray when installing as this can damage the unit, or cause malfunction.

Warning when installing in a car without ACC (accessory) position on the ignition key switch

Be sure to press OFF on the unit for two seconds to turn off the clock display after turning off the engine.
When you press OFF only momentarily, the clock display does not turn off and this causes battery wear.

RESET button

When the installation and connections are completed, be sure to press the RESET button with a ballpoint pen, etc., after removing the front panel.



Vorsichtsmaßnahmen

- Wählen Sie den Einbauort sorgfältig so aus, dass das Gerät beim Fahren nicht hinderlich ist.
- Bauen Sie das Gerät so ein, dass es keinen hohen Temperaturen (keinem direkten Sonnenlicht, keiner Warmluft von der Heizung), keinem Staub, keinem Schmutz und keinen starken Vibrationen ausgesetzt ist.
- Für eine sichere Befestigung verwenden Sie stets nur die mitgelieferten Montageteile.

Hinweis zum Montagewinkel
Das Gerät sollte in einem Winkel von weniger als 30° montiert werden.

Abnehmen und Anbringen der Frontplatte (5)

Nehmen Sie die Frontplatte vor dem Einbau des Geräts ab.

5-A Abnehmen
Drücken Sie auf jeden Fall OFF, bevor Sie die Frontplatte abnehmen. Drücken Sie RELEASE, um die Frontplatte zu entriegeln und ziehen Sie sie dann auf sich zu.

5-B Anbringen
Setzen Sie Teil Ⓑ der Frontplatte wie in der Abbildung dargestellt an Teil Ⓐ des Geräts an, und drücken Sie die linke Seite der Frontplatte an, bis sie mit einem Klicken einrastet.

Montagebeispiel (6)

Installation im Armaturenbrett

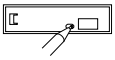
Achten Sie beim Einbau des Geräts darauf, die Frontplatte geschlossen zu halten. (B→)
Halten Sie das Gerät beim Einbau nicht an der Frontplatte oder am CD-Fach. Andernfalls kann es zu Schäden am Gerät oder zu Fehlfunktionen kommen.

Warnhinweis zur Installation des Geräts in einem Auto mit Zündschloss ohne Zubehörposition ACC oder I

Drücken Sie am Gerät unbedingt zwei Sekunden lang OFF, um die Uhrzeitanzeige auszuschalten, nachdem Sie den Motor ausgeschaltet haben.
Wenn Sie OFF nur kurz drücken, wird die Uhrzeitanzeige nicht ausgeschaltet und der Autobatterie wird Strom entzogen.

Taste RESET

Wenn Sie das Gerät eingebaut und alle Anschlüsse vorgenommen haben, müssen Sie die Frontplatte abnehmen und mit einem Kugelschreiber oder einem anderen spitzen Gegenstand die Taste RESET drücken.



Précautions

- Choisissez soigneusement l'emplacement de l'installation afin que l'appareil ne gêne pas le conducteur dans ses mouvements.
- Evitez d'installer l'appareil dans un endroit exposé à la poussière, à la saleté, à des vibrations excessives ou à des températures élevées comme en plein soleil ou à proximité de conduits de chauffage.
- Pour garantir un montage sûr, n'utilisez que le matériel fourni.

Réglage de l'angle de montage
Ajustez l'inclinaison à un angle inférieur à 30°.

Retrait et pose de la façade (5)

Avant d'installer l'appareil, retirez la façade.

5-A Pour retirer
Avant de déposer la façade, n'oubliez pas d'appuyer sur OFF. Appuyez sur RELEASE pour ouvrir la façade, puis retirez-la en tirant vers vous.

5-B Pour attacher
Fixez la partie Ⓑ de la façade sur la partie Ⓐ de l'appareil, comme indiqué sur l'illustration, puis appuyez sur le côté gauche jusqu'au déclic.

Exemple de montage (6)

Installation dans le tableau de bord

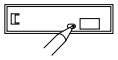
Pendant l'installation de l'appareil, vérifiez que la façade de cet appareil est fermé. (B→)
Ne tenez pas l'appareil par la façade ou le plateau de disque lors de l'installation, car cela risque d'endommager l'appareil ou d'entraîner un problème de fonctionnement.

Avertissement en cas d'installation dans une voiture dont le contact ne comporte pas de position ACC (accessoires)

Appuyez sur la touche OFF de l'appareil pendant deux secondes pour désactiver l'affichage de l'horloge après avoir coupé le moteur.
Si vous n'appuyez que brièvement sur OFF, l'affichage de l'horloge ne disparaît pas, ce qui provoque la décharge de la batterie.

Touche RESET

Après avoir retiré la façade, une fois que l'installation et les raccordements sont terminés, appuyez sur la touche RESET avec un stylo à bille ou un autre objet pointu.



Precauzioni

- Scegliere con attenzione la posizione per l'installazione in modo che l'apparecchio non interferisca con le operazioni di guida del conducente.
- Evitare di installare l'apparecchio dove sia soggetto ad alte temperature, come alla luce solare diretta o al getto di aria calda dell'impianto di riscaldamento, o dove possa essere soggetto a polvere, sporco e vibrazioni eccessive.
- Usare solo il materiale di montaggio in dotazione per un'installazione stabile e sicura.

Regolazione dell'angolo di montaggio
Regolare l'angolo di montaggio in modo che sia inferiore a 30°.

Come rimuovere e reinserire il pannello anteriore (5)

Prima di installare l'apparecchio rimuovere il pannello anteriore.

5-A Per rimuoverlo
Prima di rimuovere il pannello anteriore, premere OFF. Premere RELEASE per aprire il pannello anteriore ed estrarlo.

5-B Per reinserirlo
Applicare la parte Ⓑ del pannello anteriore alla parte Ⓐ dell'apparecchio come mostrato nell'illustrazione e premere il lato sinistro fino a sentire uno scatto.

Esempio di montaggio (6)

Installazione nel cruscotto

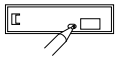
Durante l'installazione dell'apparecchio, assicurarsi di chiudere il relativo pannello anteriore. (B→)
Non installare l'apparecchio tenendolo per il pannello anteriore o per il vassoio per i dischi, onde evitare di danneggiare l'apparecchio stesso o di causare problemi di funzionamento.

Avvertimento relativo all'installazione in un'auto sprovvista della posizione ACC sull'interruttore di accensione

Assicurasi di premere OFF sull'apparecchio per due secondi per spegnere il display dell'orologio dopo che il motore è stato spento.
Se si preme OFF solo per un attimo, il display dell'orologio non si spegne causando in questo modo lo scaricamento della batteria.

Tasto RESET

Una volta rimosso il pannello anteriore e dopo aver terminato l'installazione e i collegamenti, assicurarsi di premere il tasto RESET con la punta di una penna a sfera e così via.



Voorzorgsmaatregelen

- Kies de installatieplaats zorgvuldig zodat het toestel de bestuurder niet hindert tijdens het rijden.
- Installeer het apparaat niet op plaatsen waar het blootgesteld wordt aan hoge temperaturen, b.v. in direct zonlicht of bij de warme luchtstroom van de autoverwarming, aan sterke trillingen, of waar het in contact komt met veel stof of vuil.
- Gebruik voor het veilig en stevig monteren van het apparaat uitsluitend de bijgeleverde montage-onderdelen.

Maximale montagehoek
Installeer het apparaat nooit onder een hoek van meer dan 30° met het horizontale vlak.

Verwijderen en bevestigen van het afneembare frontpaneel (5)

Verwijder, alvorens met het installeren te beginnen, het afneembare frontpaneel.

5-A Verwijderen
Vergeet niet, voordat u het frontpaneel verwijdert, eerst op OFF te drukken. Druk op RELEASE om het frontpaneel te openen en trek het naar u toe af.

5-B Bevestigen
Breng deel Ⓑ van het frontpaneel aan op deel Ⓐ van het apparaat zoals afgebeeld en druk op de linkerzijde tot deze vastklikt.

Montagevoorbeeld (6)

Montage in het dashboard

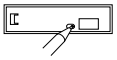
Bij het installeren van het toestel dient het frontpaneel te zijn gesloten. (B→)
Houd het toestel bij het installeren niet vast aan het frontpaneel noch de disc-lade omdat het hierdoor kan worden beschadigd of de werking verstoord.

Opgelet bij het monteren in een auto waarvan het contactslot geen ACC (accessory) stand heeft

Druk OFF op het toestel gedurende twee seconden in om de klokweergave uit te schakelen na het afzetten van de motor.
Indien u slechts even op OFF drukt, verdwijnt de tijdindicatie niet waardoor de batterij uitgeput raakt.

RESET-toets

Na het installeren en verrichten van alle aansluitingen, moet u altijd het frontpaneel verwijderen en de RESET-toets indrukken met een balpen of dergelijke.



Power connection diagram

Auxiliary power connector may vary depending on the car. Check your car's auxiliary power connector diagram to make sure the connections match correctly. There are three basic types (illustrated below). You may need to switch the positions of the red and yellow leads in the car stereo's power connecting cord.
After matching the connections and switched power supply leads correctly, connect the unit to the car's power supply. If you have any questions and problems connecting your unit that are not covered in this manual, please consult the car dealer.

Diagramma dei collegamenti di alimentazione

Il connettore di alimentazione ausiliaria può variare a seconda della macchina. Controllare il diagramma del connettore di alimentazione ausiliaria della macchina per essere sicuri che le connessioni corrispondano correttamente. Vi sono tre tipi di base (illustrazione sotto). Potrà essere necessario cambiare le posizioni dei conduttori rosso e giallo nel cavo di collegamento dell'alimentazione dello stereo della macchina.
Dopo aver fatto corrispondere le connessioni e i cavi di alimentazione commutata, collegare l'apparecchio all'alimentazione della macchina. Se si hanno domande o se sorgono problemi che non sono stati trattati nel manuale nel collegare l'apparecchio, contattare l'autoconcessionario.

Stromanschlussdiagramm

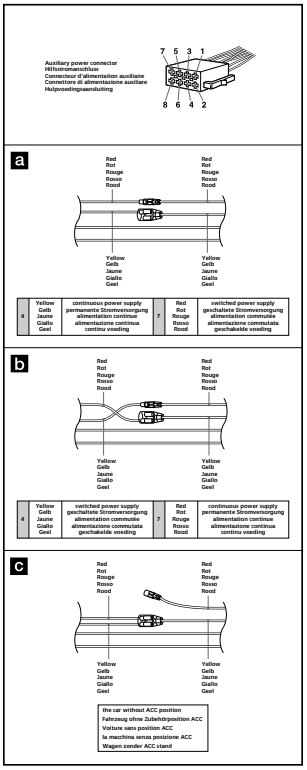
Der Hilfsstromanschluss kann je nach Fahrzeugtyp unterschiedlich sein. Sehen Sie im Hilfsstromanschlussdiagramm für Ihr Fahrzeug nach, wie die Verbindung ordnungsgemäß vorgenommen werden muss. Es gibt, wie unten abgebildet, drei grundlegende Typen. Sie müssen möglicherweise die rote und gelbe Leitung des Stromversorgungskabels der Autostereoanlage vertauschen.
Stellen Sie die Anschlüsse her, schließen Sie die geschalteten Stromversorgungsleitungen richtig an und verbinden Sie dann das Gerät mit der Stromversorgung Ihres Fahrzeugs. Wenn beim Anschließen des Geräts Fragen oder Probleme auftreten, die in dieser Bedienungsanleitung nicht erläutert werden, wenden Sie sich bitte an den Autohändler.

Voedingsaansluitschema

De hulpvoedingsaansluiting kan verschillen naargelang van de wagen. Controleer het voedingsaansluitschema dat bij dit toestel wordt geleverd om te zien of de aansluitingen kloppen. Er zijn drie basistypes (zie illustratie hieronder). Het is mogelijk dat u de posities van de rode en gele kabels in het aansluitsnoer van het car audiosysteem moet omwisselen.
Als de aansluitingen en geschakelde voedingskabels kloppen, sluit u het toestel aan op de voeding van de wagen. Indien u nog vragen of problemen hebt in verband met het aansluiten van het toestel die niet in deze handleiding vermeld staan, raadpleeg dan de autodealer.

Schéma de connexion d'alimentation

Le connecteur d'alimentation auxiliaire peut varier suivant le type de voiture. Vérifiez le schéma du connecteur d'alimentation auxiliaire de votre voiture pour vous assurer que les connexions correspondent. Il existe trois types de connexions de base (illustrés ci-dessous). Il se peut que vous deviez commuter la position du fil rouge et jaune du cordon d'alimentation de l'autoradio.
Après avoir établi les connexions et commuté correctement les fils d'alimentation, raccordez l'appareil à l'alimentation de la voiture. Si vous avez des questions ou des difficultés à propos du raccordement de cet appareil qui ne sont pas abordées dans le présent mode d'emploi, consultez votre concessionnaire automobile.



SECTION 3
DISASSEMBLY

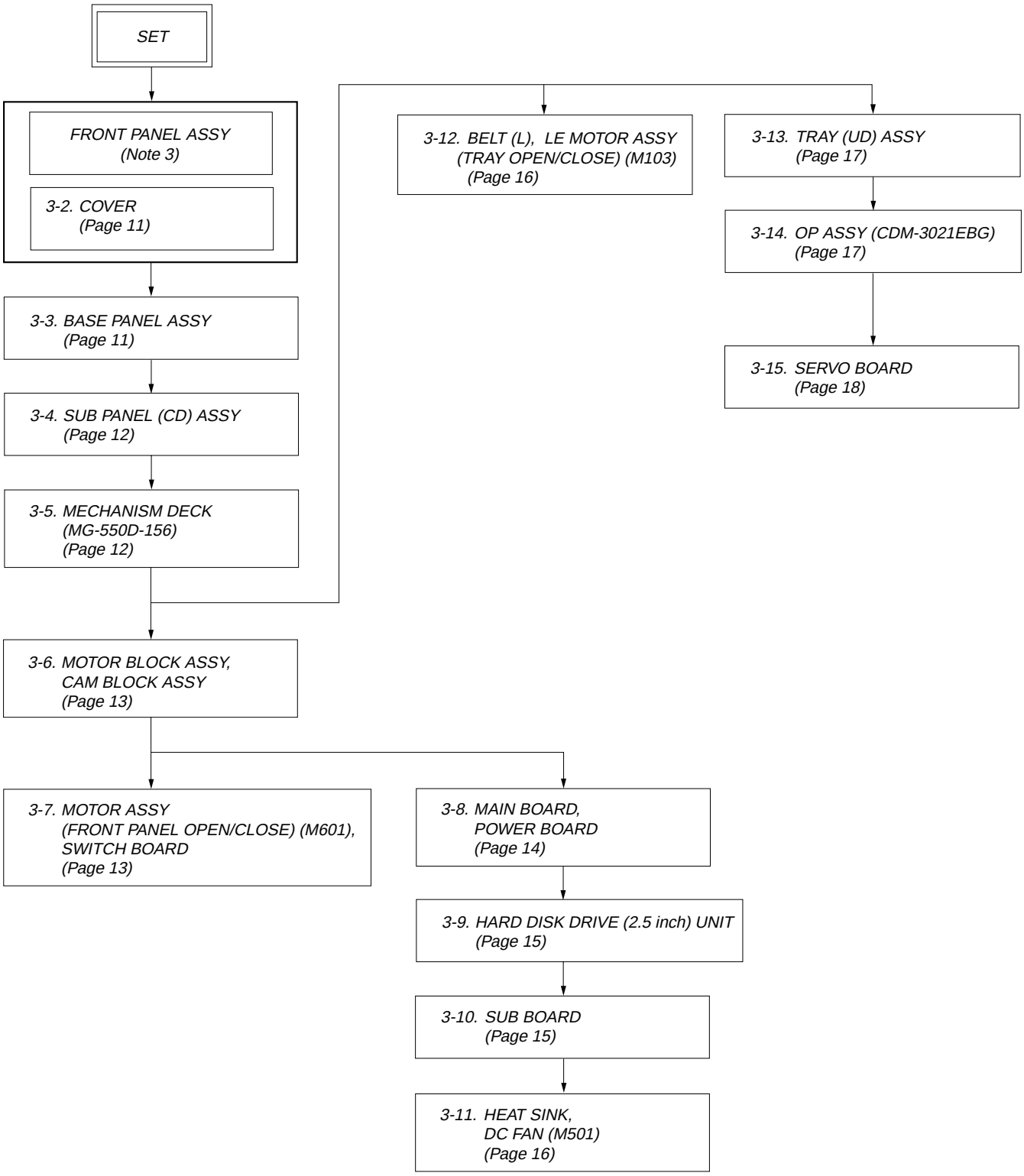
3-1. DISASSEMBLY FLOW

• This set can be disassembled in the order shown below.

Note 1: *The process described in ▣ can be performed in any order.*

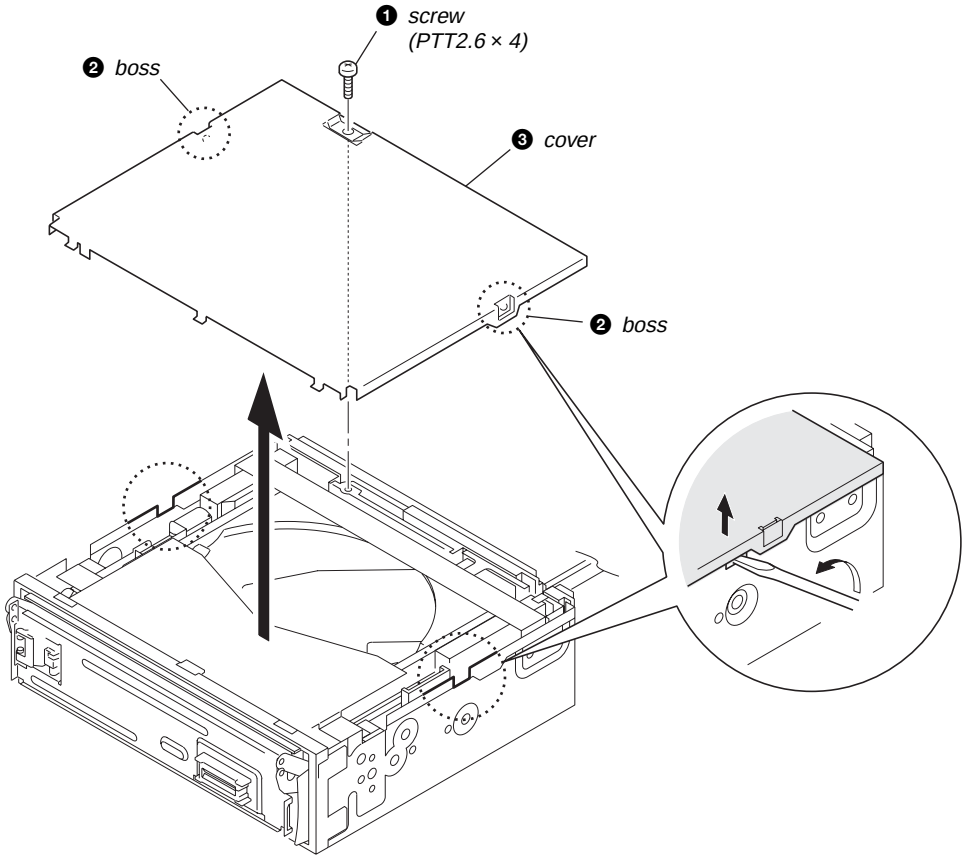
Note 2: *Without completing the process described in ▣, the next process can not be performed.*

Note 3: *Illustration of disassembly is omitted.*

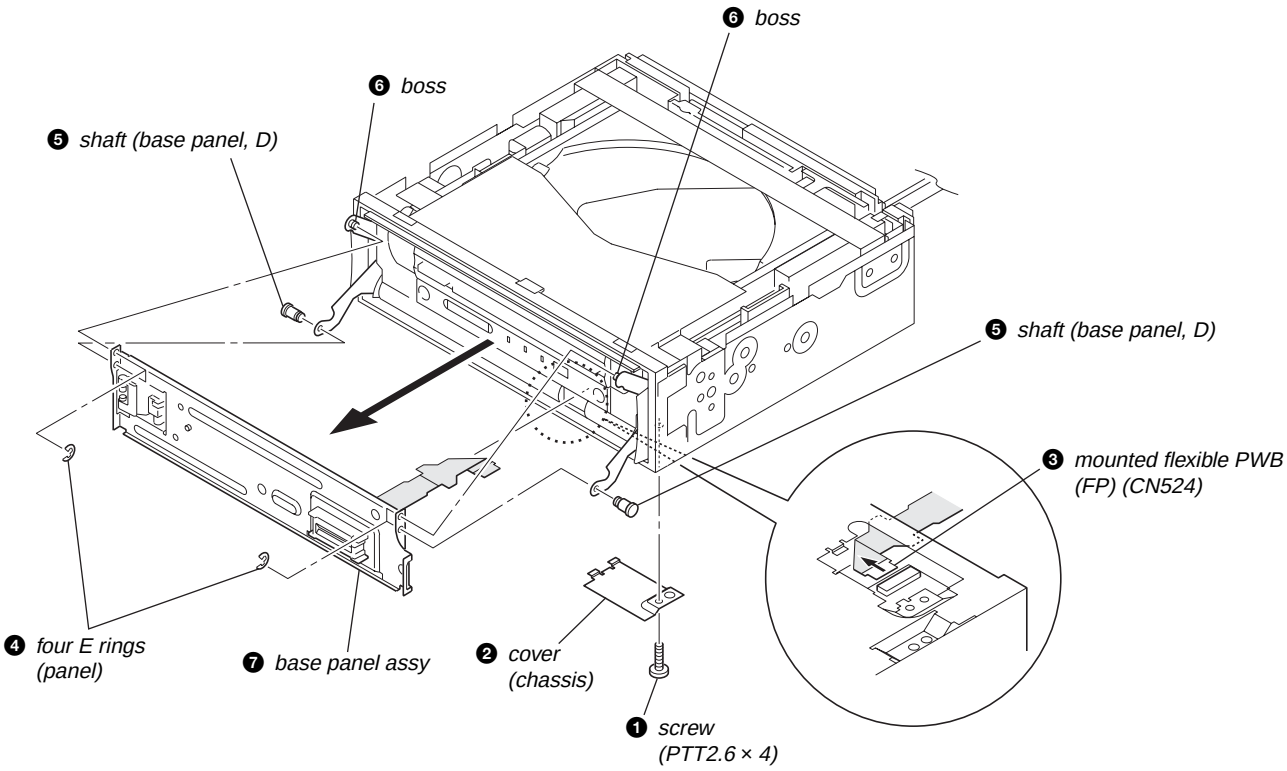

SET
FRONT PANEL ASSY (Note 3)
3-2. COVER (Page 11)
3-3. BASE PANEL ASSY (Page 11)
3-4. SUB PANEL (CD) ASSY (Page 12)
3-5. MECHANISM DECK (MG-550D-156) (Page 12)
3-6. MOTOR BLOCK ASSY, CAM BLOCK ASSY (Page 13)
3-7. MOTOR ASSY (FRONT PANEL OPEN/CLOSE) (M601), SWITCH BOARD (Page 13)
3-8. MAIN BOARD, POWER BOARD (Page 14)
3-9. HARD DISK DRIVE (2.5 inch) UNIT (Page 15)
3-10. SUB BOARD (Page 15)
3-11. HEAT SINK, DC FAN (M501) (Page 16)
3-12. BELT (L), LE MOTOR ASSY (TRAY OPEN/CLOSE) (M103) (Page 16)
3-13. TRAY (UD) ASSY (Page 17)
3-14. OP ASSY (CDM-3021EBG) (Page 17)
3-15. SERVO BOARD (Page 18)

Note: Follow the disassembly procedure in the numerical order given.

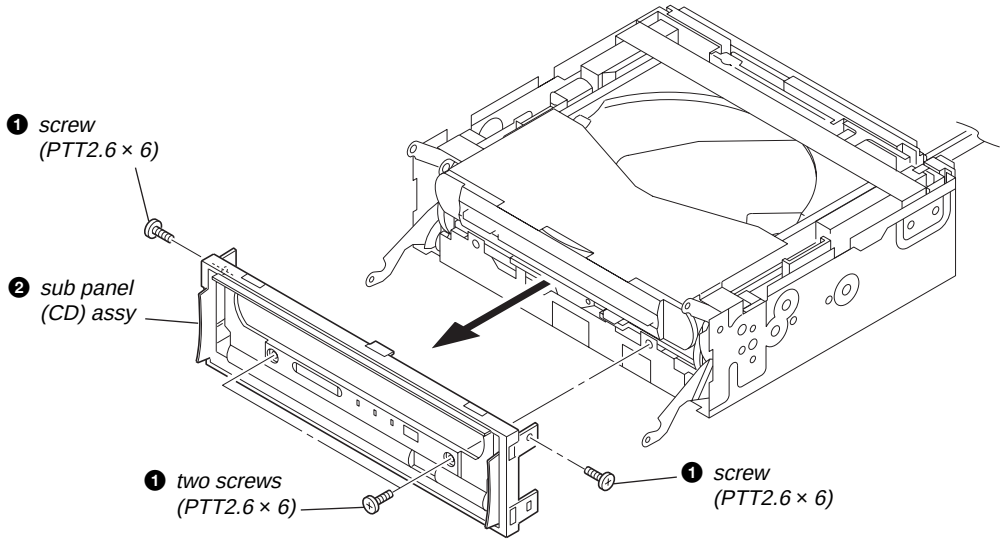
3-2. COVER



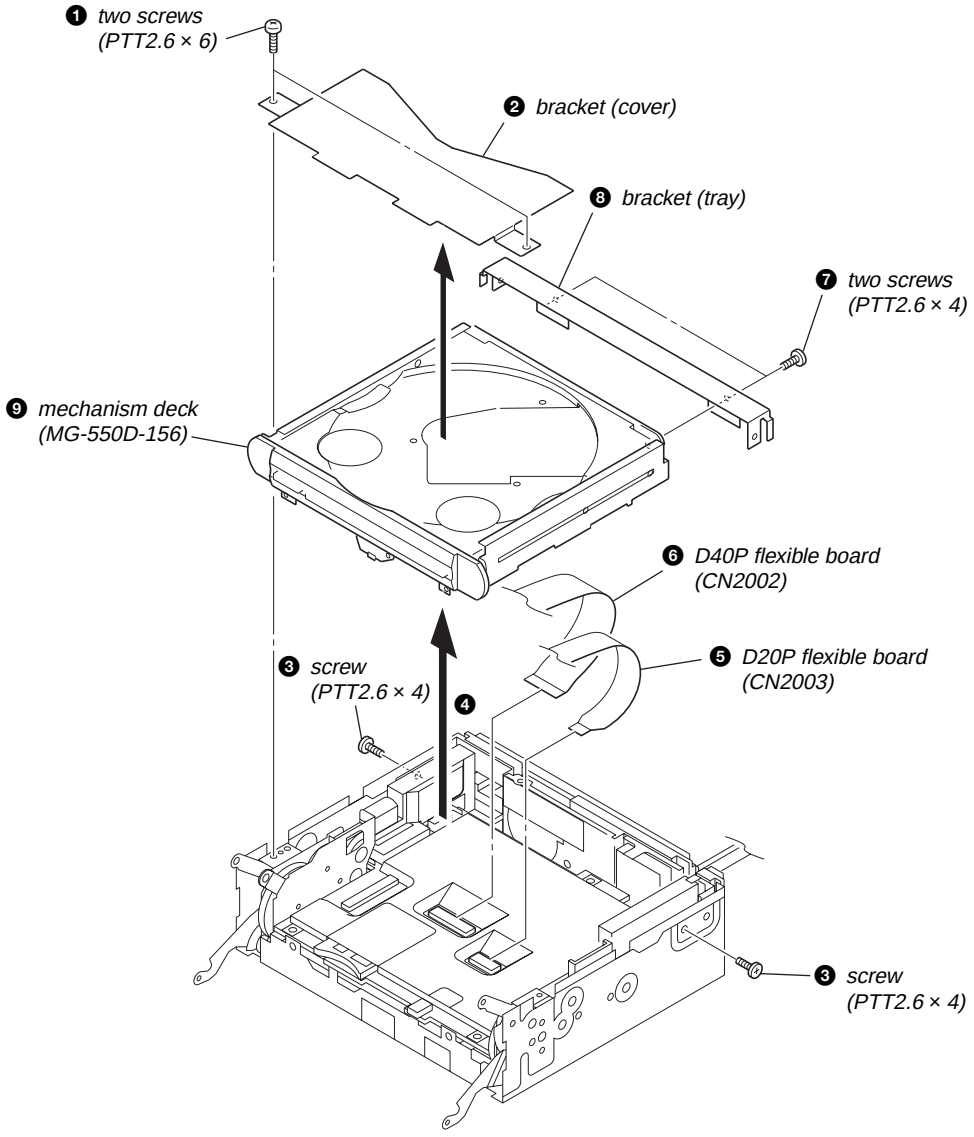
3-3. BASE PANEL ASSY



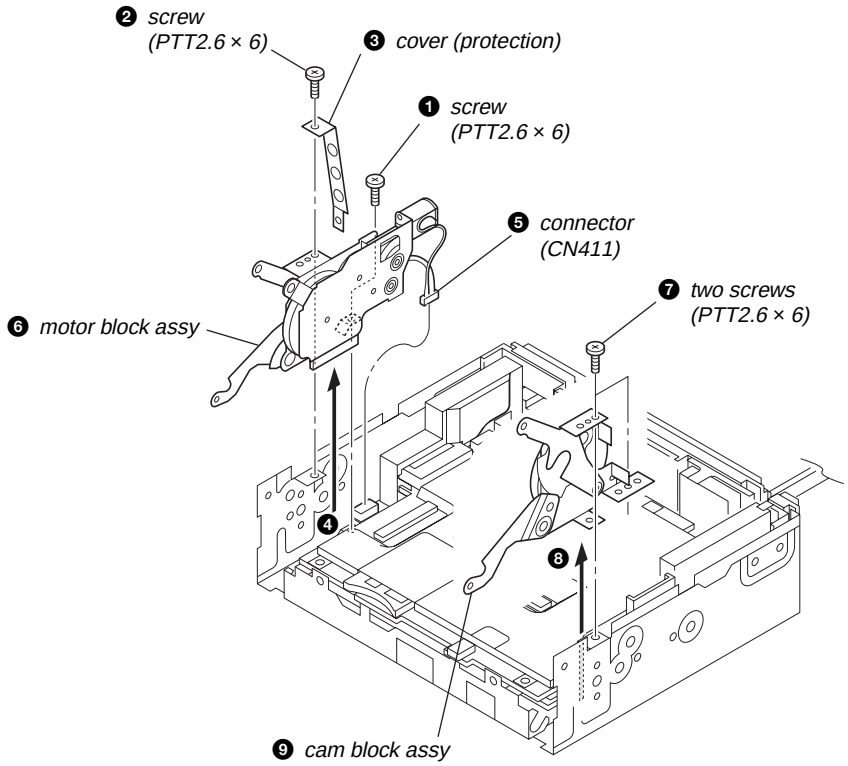
3-4. SUB PANEL (CD) ASSY



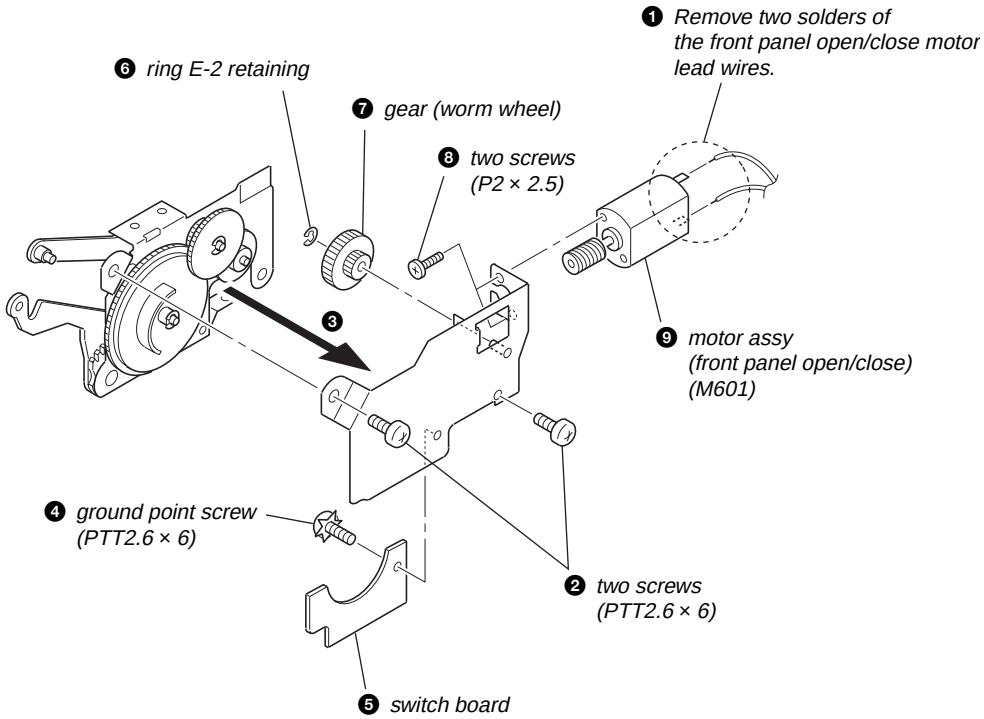
3-5. MECHANISM DECK (MG-550D-156)



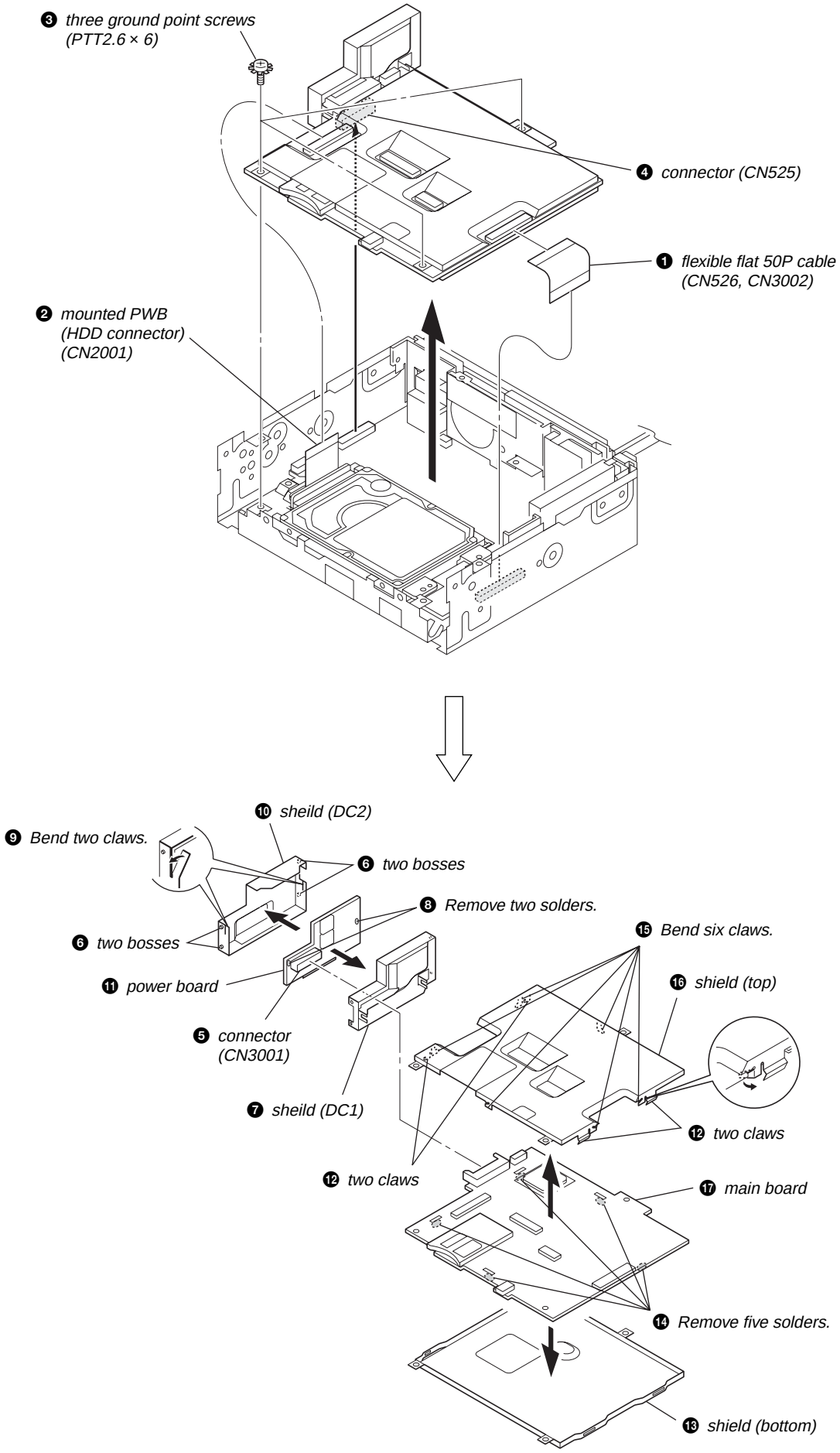
3-6. MOTOR BLOCK ASSY, CAM BLOCK ASSY



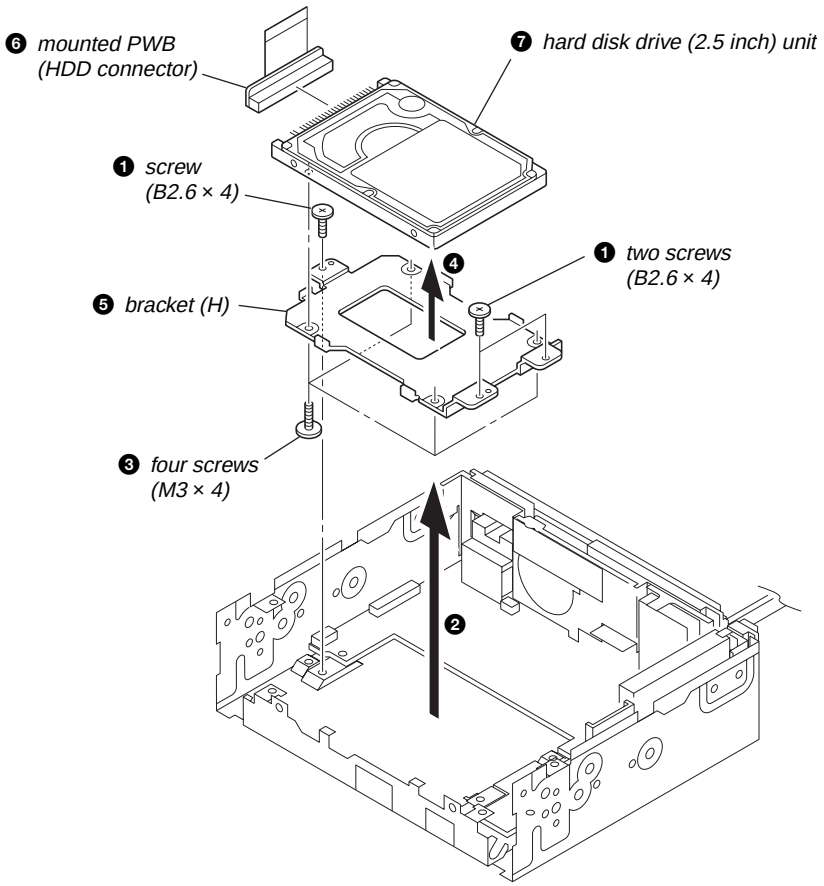
3-7. MOTOR ASSY (FRONT PANEL OPEN/CLOSE) (M601), SWITCH BOARD



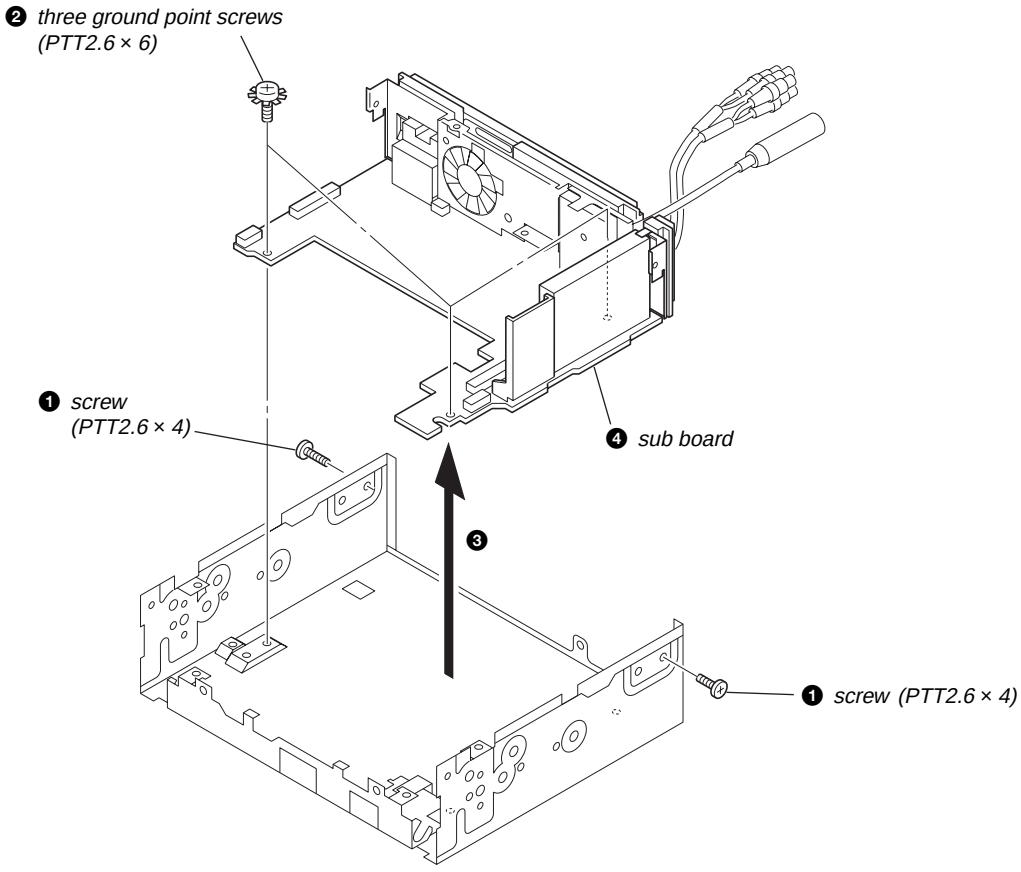
3-8. MAIN BOARD, POWER BOARD



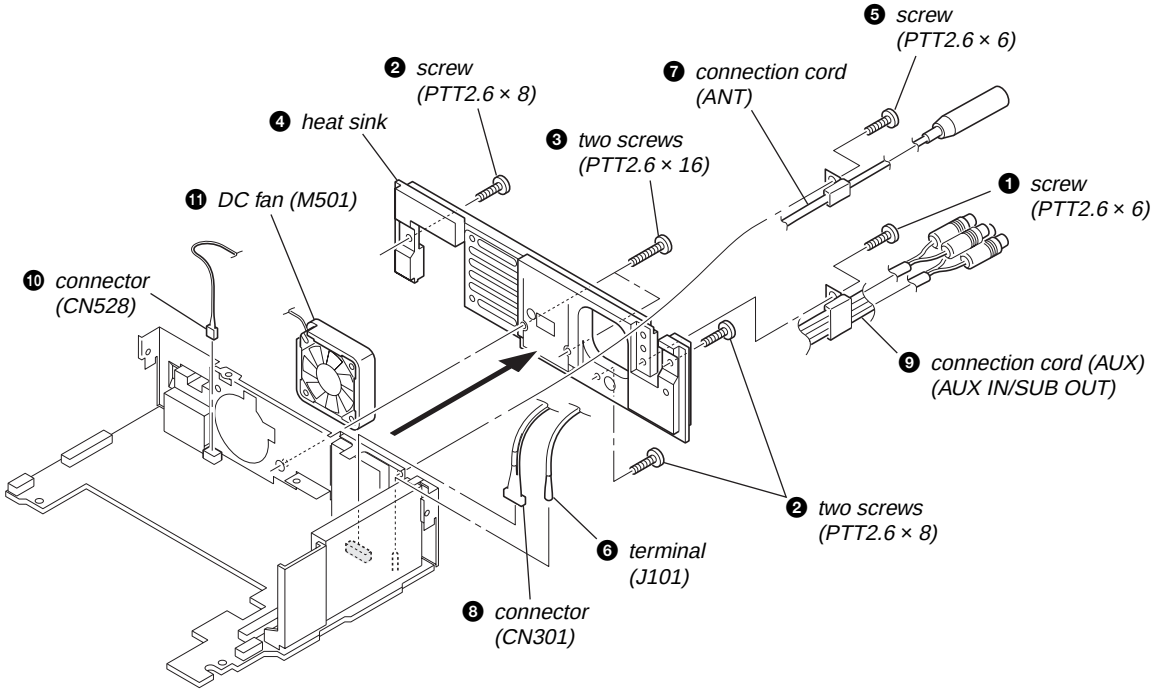
3-9. HARD DISK DRIVE (2.5 inch) UNIT



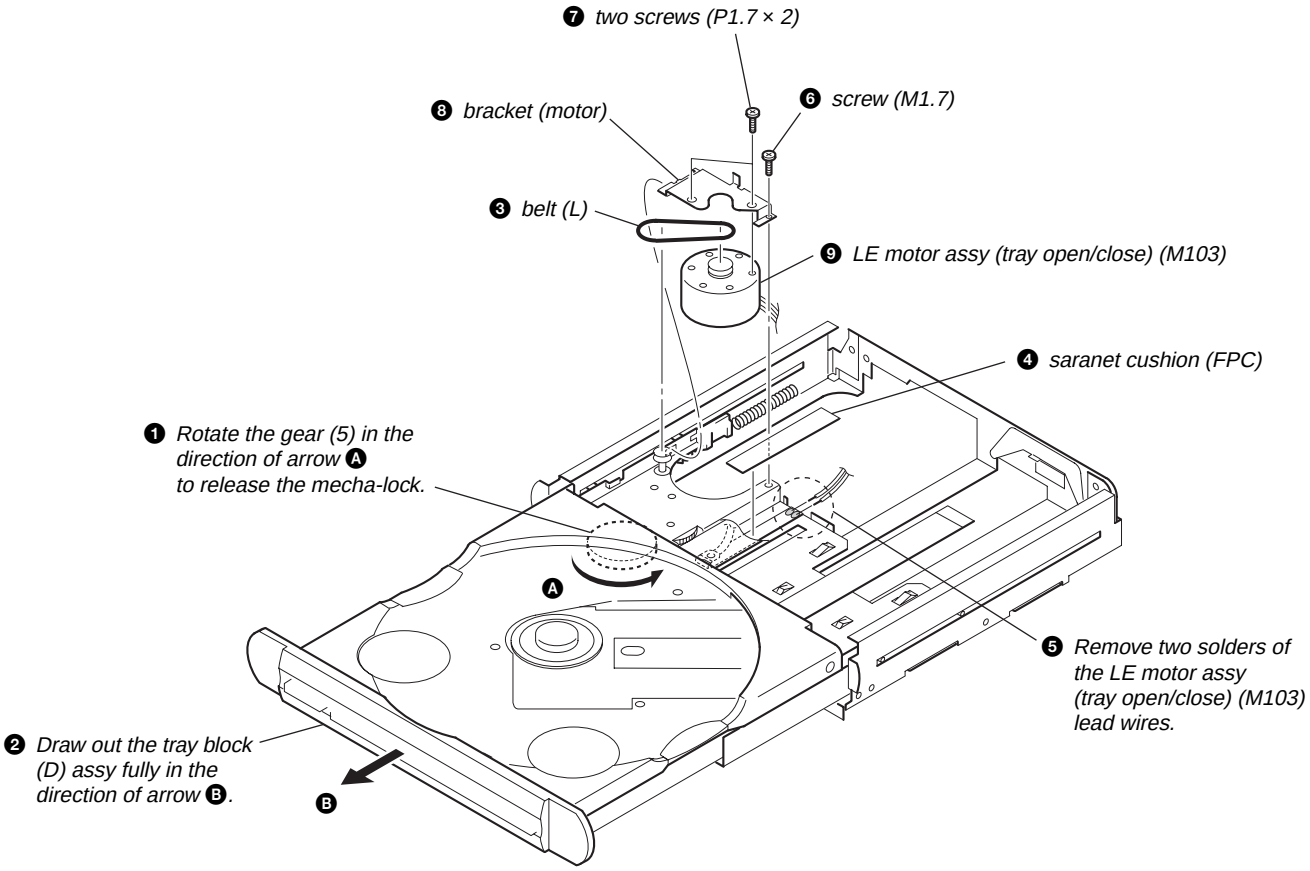
3-10. SUB BOARD



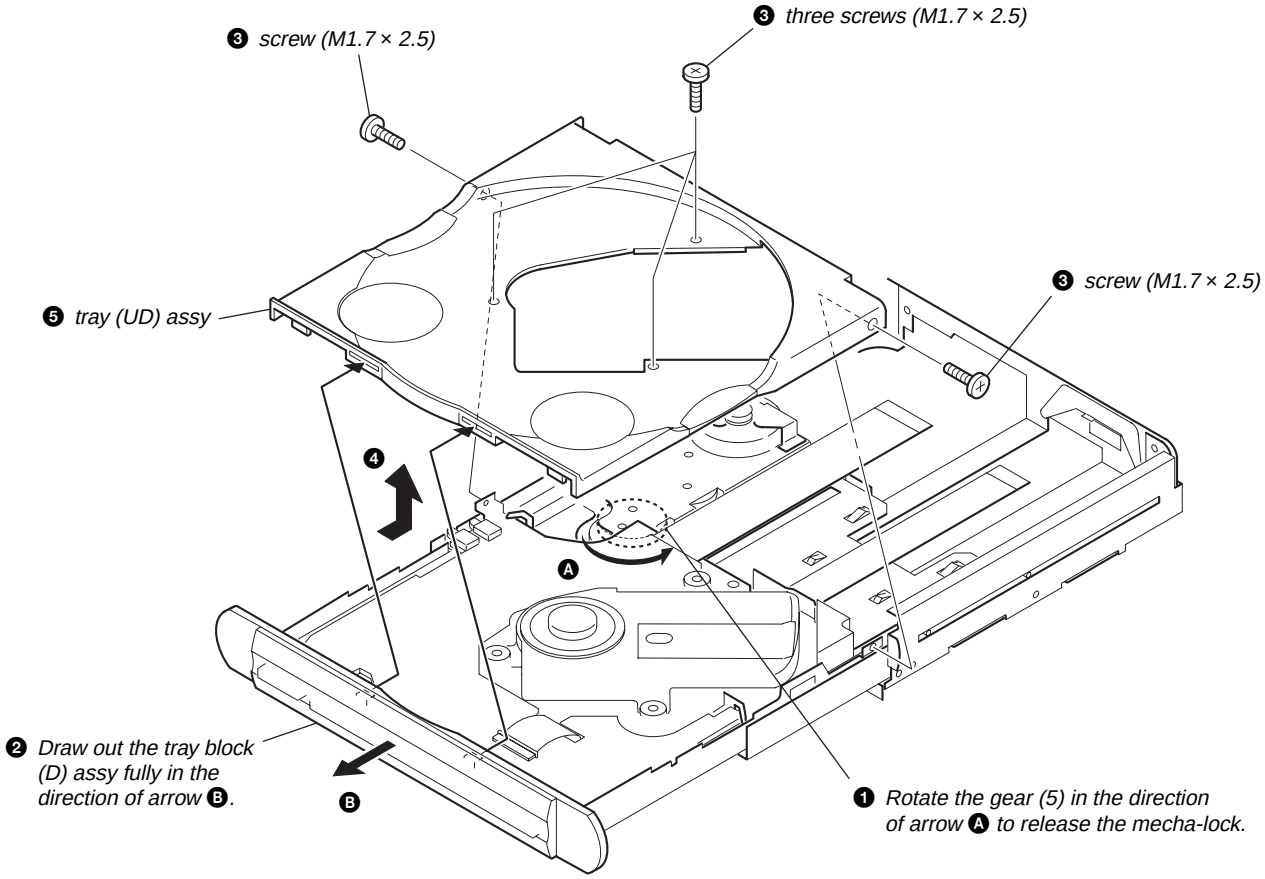
3-11. HEAT SINK, DC FAN (M501)


❺ screw (PTT2.6 × 6)
❷ screw (PTT2.6 × 8)
❼ connection cord (ANT)
❹ heat sink
❸ two screws (PTT2.6 × 16)
❶ screw (PTT2.6 × 6)
⓫ DC fan (M501)
❿ connector (CN528)
❾ connection cord (AUX) (AUX IN/SUB OUT)
❷ two screws (PTT2.6 × 8)
❻ terminal (J101)
❽ connector (CN301)

3-12. BELT (L), LE MOTOR ASSY (TRY OPEN/CLOSE) (M103)

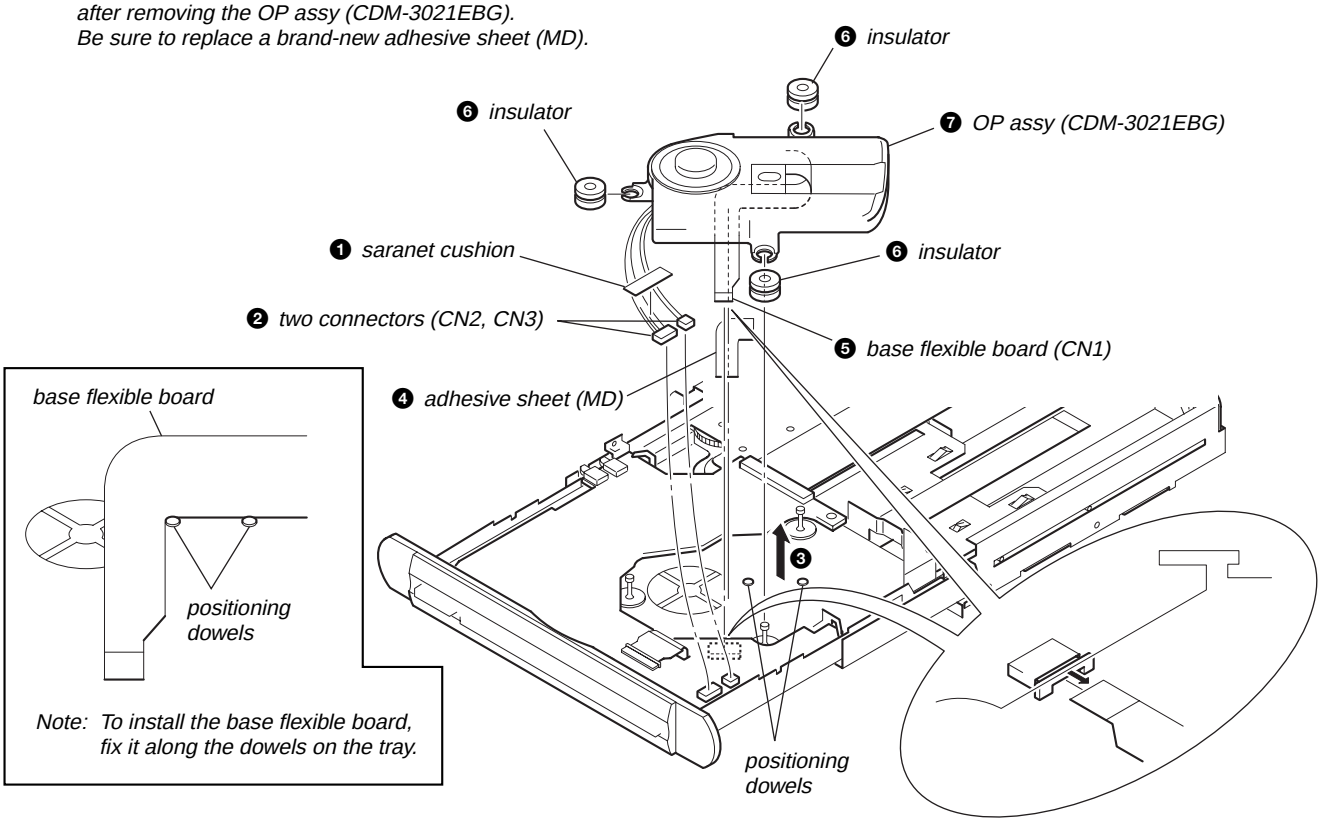

❼ two screws (P1.7 × 2)
❽ bracket (motor)
❻ screw (M1.7)
❸ belt (L)
❾ LE motor assy (tray open/close) (M103)
❹ saranet cushion (FPC)
❶ Rotate the gear (5) in the direction of arrow Ⓐ to release the mecha-lock.
Ⓐ
❺ Remove two solders of the LE motor assy (tray open/close) (M103) lead wires.
❷ Draw out the tray block (D) assy fully in the direction of arrow Ⓑ.
Ⓑ

3-13. TRAY (UD) ASSY

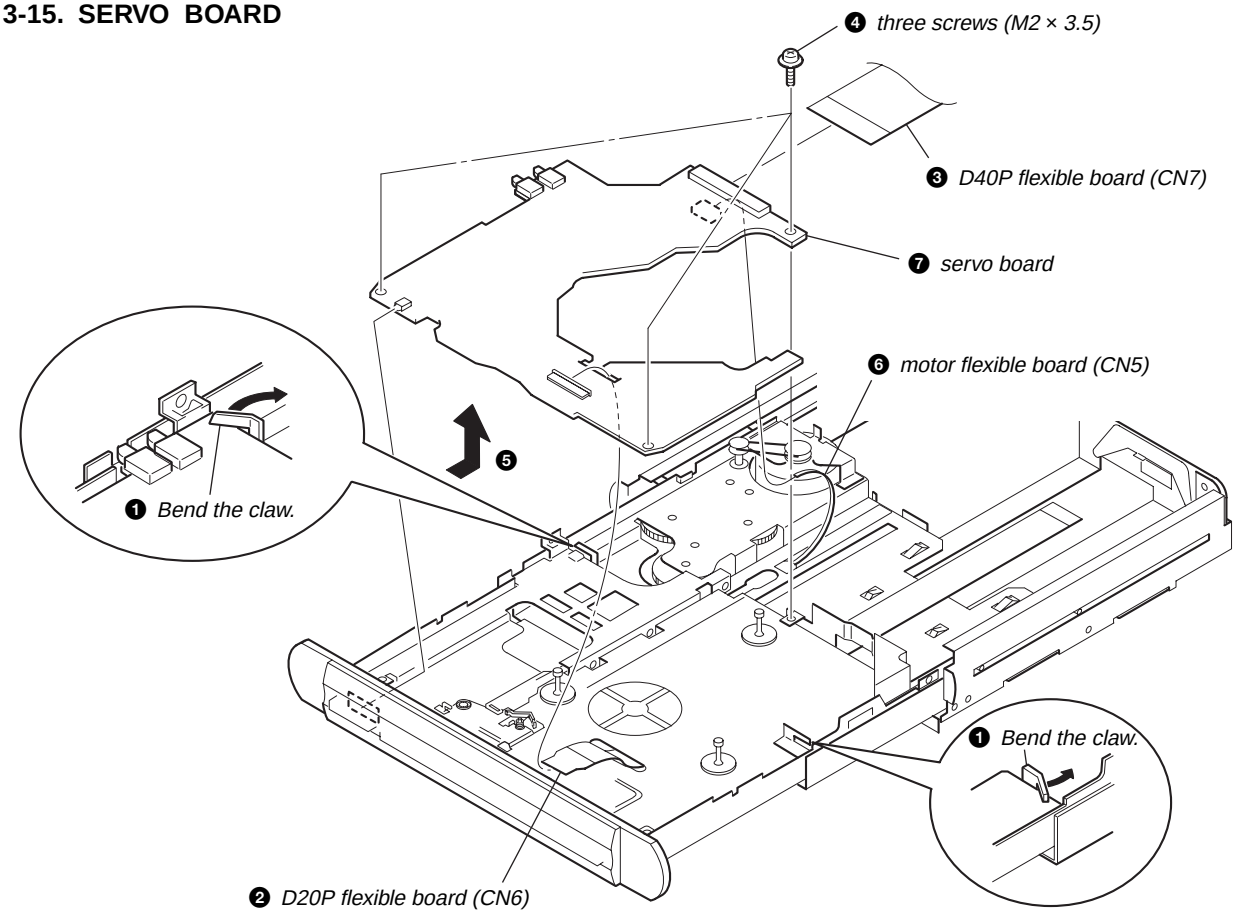

❸ screw (M1.7 × 2.5)
❸ three screws (M1.7 × 2.5)
❸ screw (M1.7 × 2.5)
❺ tray (UD) assy
❹
Ⓐ
❷ Draw out the tray block (D) assy fully in the direction of arrow Ⓑ.
Ⓑ
❶ Rotate the gear (5) in the direction of arrow Ⓐ to release the mecha-lock.

3-14. OP ASSY (CDM-3021EBG)

Note: Do not reuse the adhesive sheet (MD) after removing the OP assy (CDM-3021EBG). Be sure to replace a brand-new adhesive sheet (MD).



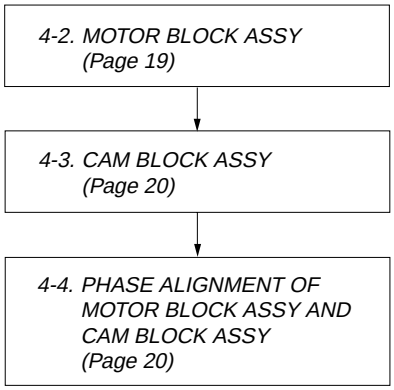
3-15. SERVO BOARD


❹ three screws (M2 × 3.5)
❸ D40P flexible board (CN7)
❼ servo board
❻ motor flexible board (CN5)
❺
❶ Bend the claw.
❶ Bend the claw.
❷ D20P flexible board (CN6)

SECTION 4
ASSEMBLY

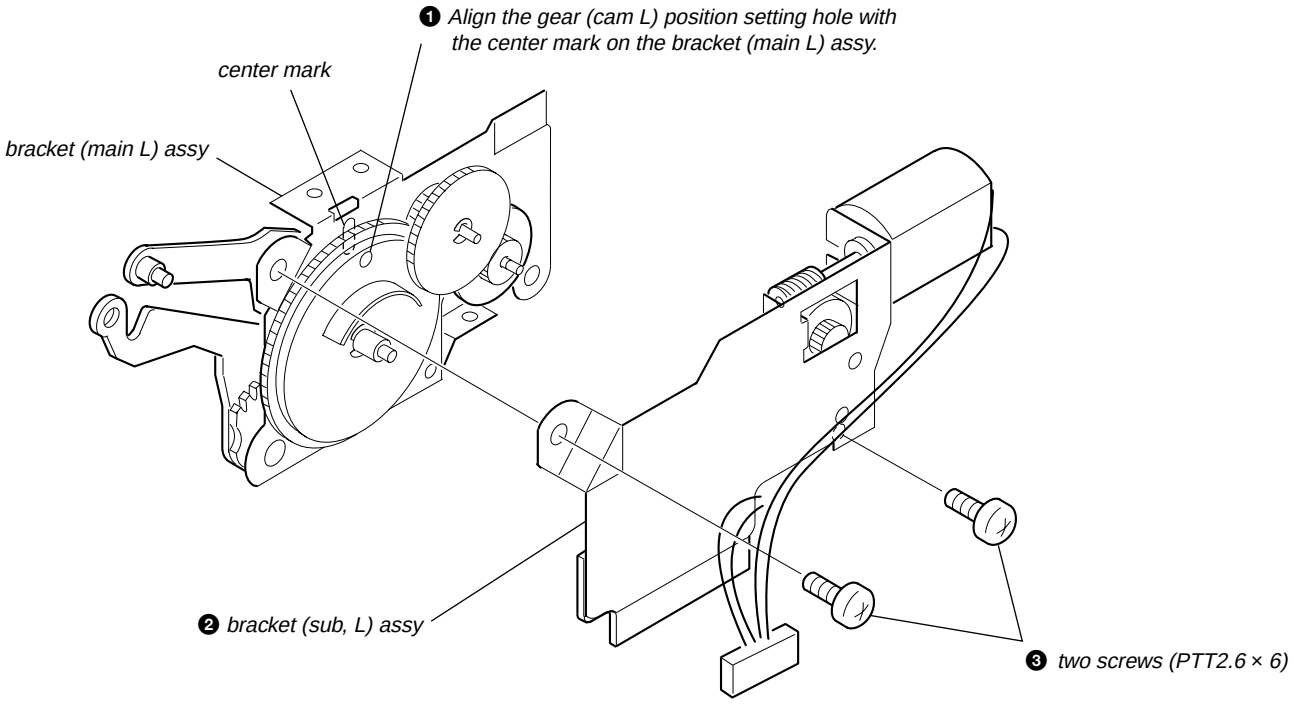
4-1. ASSEMBLY FLOW

• This set can be assembled in the order shown below.

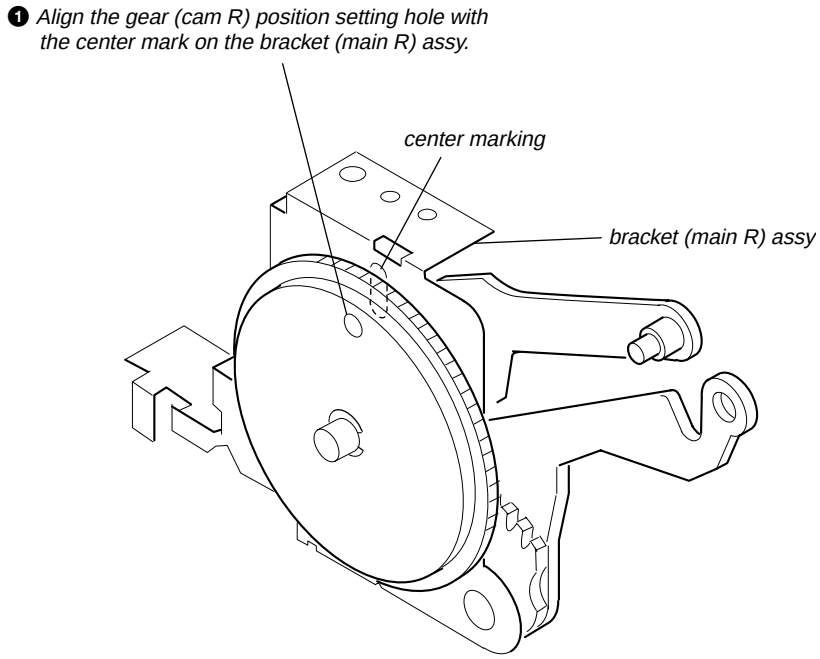


Note: Follow the assembly procedure in the numerical order given.

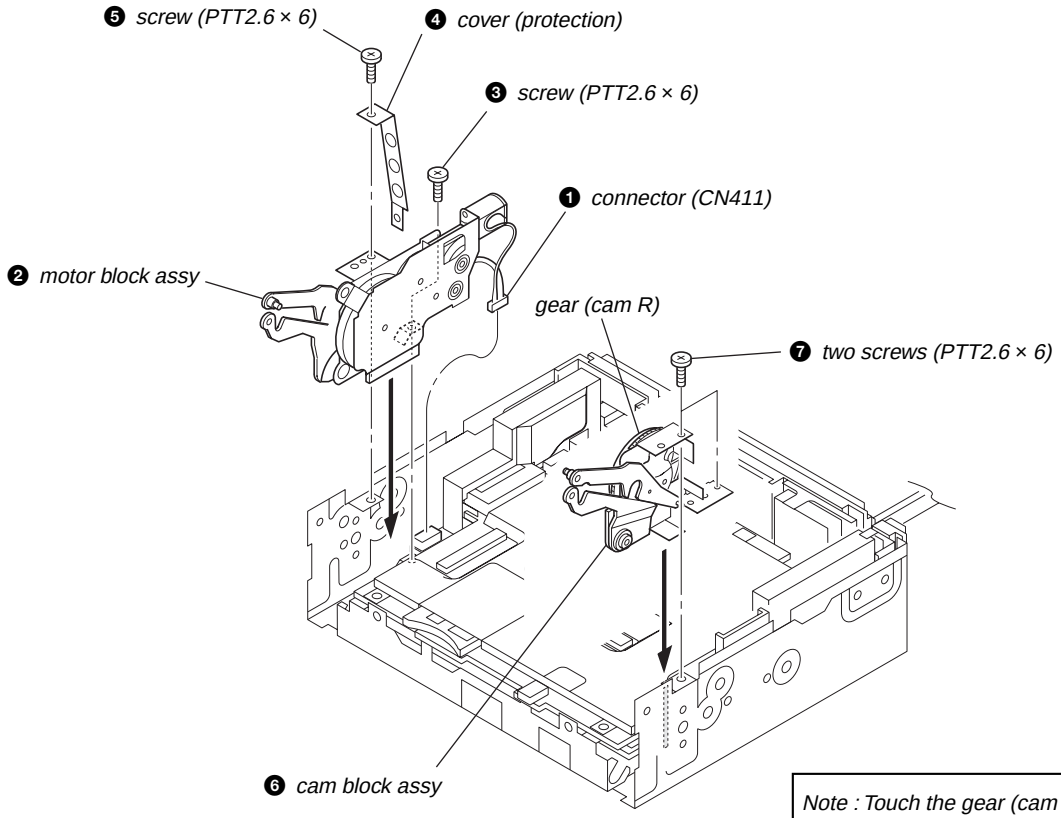
4-2. MOTOR BLOCK ASSY


❶ Align the gear (cam L) position setting hole with the center mark on the bracket (main L) assy.
center mark
bracket (main L) assy
❷ bracket (sub, L) assy
❸ two screws (PTT2.6 × 6)

4-3. CAM BLOCK ASSY


❶ Align the gear (cam R) position setting hole with the center mark on the bracket (main R) assy.
center marking
bracket (main R) assy

4-4. PHASE ALIGNMENT OF MOTOR BLOCK ASSY AND CAM BLOCK ASSY


❺ screw (PTT2.6 × 6)
❹ cover (protection)
❸ screw (PTT2.6 × 6)
❶ connector (CN411)
❷ motor block assy
gear (cam R)
❼ two screws (PTT2.6 × 6)
❻ cam block assy

Note : Touch the gear (cam R) with fingers in the direction of rotation and make sure that there is no phase difference with the motor block assy side position setting hole.

SECTION 5
TEST MODE

Note: The test mode of this set contains the items not used for the service. If you activated another mode by mistake, press the function button 1 or the [M] (Menu) button to deactivate that mode. Particularly, for the menu commands and Factory Setting saved in the HDD menu, never execute them except when the hard disk drive was replaced. Otherwise, the hard disk drive will not operate or the data saved by the user in the hard disk will be erased.

[ENTERING THE TEST MODE]

1. In the standby state, perform the following operation.
   (1) Rotate clockwise the right jog dial (PUSH LIST) 4 clicks.
   (2) Press the left jog button (PUSH SOUND).
   (3) Rotate counterclockwise the right jog dial (PUSH LIST) 5 clicks.
   (4) Press the left jog button (PUSH SOUND).
   (5) Rotate clockwise the right jog dial (PUSH LIST) 1 click.
   (6) Press the left jog button (PUSH SOUND) for more than 2 seconds.
2. When the test mode is activated, a peep will be heard and the "TEST MODE" will be displayed on the screen. ("TEST MODE" disappears soon)
3. Press the [M] (Menu) button, and the test mode main menu screen will be displayed.

[RELEASING THE TEST MODE]

To release the test mode, perform either of the following operations.

- Turn the main power off.
- Remove the front panel.
- Press the [OFF] button for more than 2 seconds.

Note: In exiting the test mode, the system is reset automatically and the data are erased. Then, when the power is turned on again, the date and time setting screen is displayed, but this setting is also erased in certain time after the main power was turned off.
Accordingly, re-setting is not necessary but normal operation and the test mode operation are disabled unless the date and time setting has completed. In such a case, therefore, press the right jog button (PUSH LIST) repeatedly and enter tentative date and time set values.

[BASIC OPERATION]

In the test mode, basically the following dial and buttons are used for the operation.

- Right jog dial (PUSH LIST) : Selects an item.
- Right jog button (PUSH LIST) : Enters the selected item.
- Function button 1 : Returns to the one-level higher menu

[DIAGNOSTIC FUNCTION]

Procedure:

1. Select the "Test Mode" from the test mode main menu by rotating the right jog dial (PUSH LIST), and press the right jog button (PUSH LIST) to enter the Test Mode.
2. Rotate the right jog dial (PUSH LIST) to select the "DIAG", and press the right jog button (PUSH LIST) to enter the DIAG mode.
3. With the "ALL -Auto-" selected, pressing the right jog button (PUSH LIST) allows all of the following items to be checked automatically.
   - PEACOCK (MAIN board IC2003)
   - HUMMING BIRD (MAIN board IC3003)
   - ISP1161 (MAIN board IC4301)
   - CXD1859 (MAIN board IC4001)
   - E2PROM (MAIN board IC4002) *1
   - ATA0 (HDD) (Hard disk drive) *2
   - ATA1 (CDD) (CD servo block)
   - WM (USB connection) *3
   - RTC (SUB board IC502)

   *1) A checking without inserting a memory stick causes an error, and the "E2PROM NO MS" is displayed.
   *2) If the ATA0 (HDD) check results in NG, try to repeat the check several times.
   If repetitional check results in NG, a communication error is doubtful, besides faulty hard disk drive.
   *3) A checking without connecting the USB causes an error, and the "NWWM NG!" is displayed.
4. After automatic check of all items completed, if all items are OK, "OK ALL" will be displayed. In case of erroneous items, NG indication is given to respective erroneous items.
5. To return to the DIAG menu, press the left jog button (PUSH SOUND).

[VERSION DISPLAY]

Besides the version display for the users in normal mode, the version of each section of the system is displayed.

Procedure:

1. Select the "Test Mode" from the test mode main menu by rotating the right jog dial (PUSH LIST), and press the right jog button (PUSH LIST) to enter the Test Mode.
2. Rotate the right jog dial (PUSH LIST) to select the "Version", and press the right jog button (PUSH LIST) to enter the Version mode.
3. With the "Version" mode activated, pressing the right jog button (PUSH LIST) allows the following versions to be displayed:
   - Main (version of main section)
   - Sub (version of sub section)
   - CD (version of CD servo section)

[VERSION UP AFTER MICROCOMPUTER SOFTWARE RELATED PARTS REPLACEMENT]

If either of the following ICs was replaced with new one, the part supplied for repair contains old version programs, and thus the version of microcomputer software must be updated.

1) Main section (when IC1030 was replaced)*
   1-1. MAIN board replacement
   1-2. Flash memory (IC1030 on the MAIN board) replacement
2) Sub section (when IC501 was replaced)
   2-1. SUB board replacement
   2-2. Microcomputer (IC501 on the SUB board) replacement
3) CD servo section (when IC9 was replaced)
   3-1. SERVO board replacement
   3-2. Flash memory (IC9 on the SERVO board) replacement

*) If the flash memory (IC1030 on the MAIN board) or MAIN board was replaced, the work including the system ID setting is required, besides this work described here. For details, see "Relating with ID" in the next paragraph, after the completion of this work.

Procedure:

• Check the versions

1. After replacing the parts, turn the power on and enter the test mode. (Refer to page 21 "Entering The Test Mode")
2. Select the "Test Mode" from the test mode main menu by rotating the right jog dial (PUSH LIST), and press the right jog button (PUSH LIST) to enter the Test Mode.
3. Rotate the right jog dial (PUSH LIST) to select the "Version", and press the right jog button (PUSH LIST) to enter the Version mode.
4. Rotate the right jog dial (PUSH LIST) to select the "Version", and press the right jog button (PUSH LIST) to display the version of each section (main, sub, CD servo)
5. Update the version in each section by referring to the operation for version up, if each version is not as listed below.

The version of each section:

Section	Version
Main	2.03.02
Sub	1.0A.12
CD servo	0.03.80

• Operation for version up

(1) Main Section

Note: The version updating work must be performed without connecting the HDD, if only the flash memory (IC1030 on MAIN board) or the MAIN board is replaced without replacing the HDD at the same time. In this case, perform the version updating work with the flat cable between CN2001 on MAIN board and HDD disconnected, and after the version updating completed, reconnect it.

1. Insert the CD-R for service to the set.
2. Select the "Test Mode" from the test mode main menu by rotating the right jog dial (PUSH LIST), and press the right jog button (PUSH LIST) to enter the Test Mode.
3. Rotate the right jog dial (PUSH LIST) to select the "Version", and press the right jog button (PUSH LIST) to enter the Version mode.
4. Rotate the right jog dial (PUSH LIST) to select the "Version Up", and press the right jog button (PUSH LIST) to enter the Version Up mode.
5. Rotate the right jog dial (PUSH LIST) to select the "Main", and press the right jog button (PUSH LIST) to display the present version information of main section.
6. Press the function button 1 ("UPDATE") to display confirmation screen of start the processing.
7. Rotate the right jog dial (PUSH LIST) to select the "OK", and press the right jog button (PUSH LIST) to start the processing.
   (process time: about 14 minutes)
8. Upon completion of the processing, the "Update is Finished" will be displayed.
9. The version displayed at this time is the one before version up, and therefore turn off the main power to exit the Test mode once, and then enter the Test mode again to check the version.
10. Perform the work including the ID setting by referring to "Relating with ID" in the next paragraph.

(2) Sub Section

1. Insert the CD-R for service to the set.
2. Select the "Test Mode" from the test mode main menu by rotating the right jog dial (PUSH LIST), and press the right jog button (PUSH LIST) to enter the Test Mode.
3. Rotate the right jog dial (PUSH LIST) to select the "Version", and press the right jog button (PUSH LIST) to enter the Version mode.
4. Rotate the right jog dial (PUSH LIST) to select the "Super Version Up", and press the right jog button (PUSH LIST) to enter the Super Version Up mode.
5. Rotate the right jog dial (PUSH LIST) to select the "Sub", and press the right jog button (PUSH LIST) to display the present version information of sub section.
6. Press the function button 1 ("UPDATE") to display confirmation screen of start the processing.
7. Rotate the right jog dial (PUSH LIST) to select the "OK", and press the right jog button (PUSH LIST) to start the processing.
   (process time: about 4 minutes)
8. Upon completion of the processing, the "Update is Finished" will be displayed, and then will be release the test mode automatically.
9. Enter the test mode again, and check the version.

(3) CD Servo Section

1. Insert the memory stick for service to the set.
2. Select the "Test Mode" from the test mode main menu by rotating the right jog dial (PUSH LIST), and press the right jog button (PUSH LIST) to enter the Test Mode.
3. Rotate the right jog dial (PUSH LIST) to select the "Version", and press the right jog button (PUSH LIST) to enter the Version mode.
4. Rotate the right jog dial (PUSH LIST) to select the "Version Up", and press the right jog button (PUSH LIST) to enter the Version Up mode.
5. Rotate the right jog dial (PUSH LIST) to select the "CD Drive", and press the right jog button (PUSH LIST) to display the present version information of CD servo section.
6. Press the function button 1 ("UPDATE") to display confirmation screen of start the processing.
7. Rotate the right jog dial (PUSH LIST) to select the "OK", and press the right jog button (PUSH LIST) to start the processing.
   (process time: about 15 seconds)
8. Upon completion of the processing, the "Update is Finished" will be displayed.
9. The version displayed at this time is the one before version up, and therefore turn off the main power to exit the Test mode once, and then enter the Test mode again to check the version.

[RELATING WITH ID]

This set relates the main block (flash memory) and the HDD (hard disk drive) with a unique ID to protect the copyright.
If the MAIN board or flash memory (IC1030 on MAIN board) and HDD were replaced, the relationship between flash memory and HDD is lost, thus causing the HDD to fail. Therefore, the ID relational work is required.
Perform the work by proper methods, since the work required varies as follows depending on the parts to be replaced.

1) When the MAIN board or flash memory (IC1030 on the MAIN board) and HDD were replaced at the same time
2) When the only MAIN board or flash memory (IC1030 on the MAIN board) was replaced
3) When the only HDD was replaced

1) When The MAIN Board or Flash Memory (IC1030 on The MAIN Board) and HDD Were Replaced at The Same Time

Note: Executing this operation without replacing the hard disk drive causes the user data to be erased. Accordingly, do not execute this operation by mistake.

When the MAIN board or flash memory (IC1030 on the MAIN board) and HDD were replaced at the same time, the processing such as system ID setting and formatting are required. After the MAIN board or flash memory (IC1030 on the MAIN board) and HDD replacement, be sure to execute all of the following steps.

1. MAIN board or flash memory (IC1030 on the MAIN board) and HDD replacement
↓
2. Version up of flash memory
(Refer to page 22 “Version Up After Microcomputer Software Related Parts Replacement)
↓
3. The date and time setting
↓
4. HDD formatting
↓
5. ID creating and copy to the HDD
↓
6. Data installing to the HDD
↓
7. Operation check
↓
8. The Factory Setting

Procedure:

• The date and time setting

1. After replacing the parts and version up of flash memory, turn the power on and press the [M] (MENU) button.
2. The menu screen is displayed when the date and time setting screen is not displayed automatically, select the “Setup” and press the right jog button (PUSH LIST) to enter the Setup mode.
3. Set the present year, month, day, hour, minute in this order with the right jog dial and button (PUSH LIST), and finally press the right jog button (PUSH LIST), and the date and time display screen (standby screen) will appear, and thus the date and time setting is over.
   Right jog dial (PUSH LIST) : Change numeric value
   Right jog button (PUSH LIST) : Enter the set numeric value, and select next item or terminate the setting
   Function button 1 : Return to previous item

• HDD formatting

1. Enter the test mode. (Refer to page 21 “Entering The Test Mode”)
2. Select the “Test Mode” from the test mode main menu by rotating the right jog dial (PUSH LIST), and press the right jog button (PUSH LIST) to enter the Test Mode.
3. Rotate the right jog dial (PUSH LIST) to select the “HDD”, and press the right jog button (PUSH LIST) to enter the HDD mode.
4. Rotate the right jog dial (PUSH LIST) to select the “FORMAT”, and press the right jog button (PUSH LIST) to enter the FORMAT mode.
5. With the Format mode activated, press the right jog button (PUSH LIST), and the “HDD-FORMAT hddDbInit...” will be displayed and then the HDD formatting will start soon.
6. Upon successful completion of HDD formatting, “HDD-FORMAT OK” will be displayed. Then, press the right jog button (PUSH LIST) to return to the FORMAT menu, and further press the function button 1 to return to the HDD menu.

• ID creating and copy to the HDD

1. Select the “ID” from the HDD menu by rotating the right jog dial (PUSH LIST), and press the right jog button (PUSH LIST) to enter the ID mode.
2. Rotate the right jog dial (PUSH LIST) to select the “CREATE”, and press the right jog button (PUSH LIST) to enter the ID CREATE mode.
3. Rotate the right jog dial (PUSH LIST) to select the “(OK)”, and press the right jog button (PUSH LIST) to execute ID creating of the system ID.
4. Upon successful completion of ID creating, if the “ID-CREATE OK” or “ID-CREATE NG” is displayed. (Even if “NG” is displayed, there is no problem and proceed to the next step as it is)
5. Select the “COPY” from the ID menu by rotating the right jog dial (PUSH LIST), and press the right jog button (PUSH LIST) to enter the ID COPY mode.
6. Rotate the right jog dial (PUSH LIST) to select the “(OK)”, and press the right jog button (PUSH LIST) to execute ID copy to the HDD of the system ID.
7. Upon successful completion of ID copy, if the “ID-COPY OK” is displayed, release the test mode. (Power off)

• Data installing to the HDD

1. When the power is turned on, the initial setting screen is displayed. Press the right jog button (PUSH LIST) button repeatedly until tentative setting completed.
   Note: Exact date and time need not be set.
2. Insert the CD-R for service to the set.
3. Again in the test mode, select the “Test Mode” from the test mode main menu by rotating the right jog dial (PUSH LIST) and press the right jog button (PUSH LIST) to enter the Test Mode.
4. Rotate the right jog dial (PUSH LIST) to select the “INSTALL”, and press the right jog button (PUSH LIST) to enter the INSTALL mode.
5. Rotate the right jog dial (PUSH LIST) to select the “ALL(EUR)”, and press the right jog button (PUSH LIST), and the “INSTALL-ALL(EUR) “ will be displayed and the installation will start soon.
   (process time: about 30 minutes)
6. Upon successful completion of installation, the “INSTALL-ALL(EUR) OK” will be displayed, and then remove the CD-R for serivce and release the test mode. (Power off)

• Operation check

1. Turn the power on again, and the initial setting screen will be displayed. Then, press the right jog button (PUSH LIST) button repeatedly until tentative setting completed.
   Note: Exact date and time need not be set.
2. In the normal mode, insert a music CD and press the [SOURCE] button to play.
3. Press the [● REC] button, rotate the right jog dial (PUSH LIST) to select the third item (musical note mark), and press the right jog button (PUSH LIST).
4. Press the function button 2 (ALL) to cancel the selection of all tracks. (A check mark on the right side of track number will disappear)
5. With the track number 1 selected, press the right jog button (PUSH LIST). (A check mark will be displayed on the right side of track number 1 only)
6. Press the [● REC] button to start the recording.
7. Upon completion of the recording, a peep will be heard and the [● REC] button will change its color from red to blue.
8. Press the [SOURCE] button to start the play of HDD. Check that the HDD is played back normally.

• Factory Setting

Note: The "Factory Setting" command deletes the data recorded on the hard disk. Only if the hard disk drive was replaced, execute this command to erase the data for operation check before returning the set to the customer.

1. Remove the CD and press the [OFF] button to activate the standby state, and then enter the test mode.
2. Select the "Test Mode" from the test mode main menu by rotating the right jog dial (PUSH LIST) and press the right jog button (PUSH LIST) to enter the Test Mode.
3. Rotate the right jog dial (PUSH LIST) to select the "Factory Setting", and press the right jog button (PUSH LIST) to start the processing.
4. Upon completion of all of the processing, "Factory Setting-OK" will be displayed, and then the system will be reset and will restart automatically.

2) When The Only MAIN Board or Flash Memory (IC1030 on The MAIN Board) Was Replaced

When the MAIN board or flash memory (IC1030 on the MAIN board) was replaced, the processing such as system ID setting is required. After the MAIN board or flash memory (IC1030 on the MAIN board) replacement, be sure to execute all of the following steps.

1. MAIN board or flash memory (IC1030 on the MAIN board) replacement
   ↓
2. Version up of flash memory*
   (Refer to page 22 "Version Up After Microcomputer Software Related Parts Replacement)
   ↓
3. The date and time setting
   ↓
4. ID creating and copy to the HDD
   ↓
5. Operation check

*) The version updating work must be performed without connecting the HDD, if only the flash memory (IC1030 on MAIN board) or the MAIN board is replaced without replacing the HDD at the same time. In this case, perform the version updating work with the flat cable between CN2001 on MAIN board and HDD disconnected, and after the version updating completed, reconnect it.

Procedure:

• The date and time setting

1. After replacing the parts and version up of flash memory, turn the power on and press the [M] (MENU) button.
2. The menu screen is displayed when the date and time setting screen is not displayed automatically, select the "Setup" and press the right jog button (PUSH LIST) to enter the Setup mode.
3. Set the present year, month, day, hour, minute in this order with the right jog dial and button (PUSH LIST), and finally press the right jog button (PUSH LIST), and the date and time display screen (standby screen) will appear, and thus the date and time setting is over.
   Right jog dial (PUSH LIST) : Change numeric value
   Right jog button (PUSH LIST) : Enter the set numeric value, and select next item or terminate the setting
   Function button 1 : Return to previous item

• ID creating and copy to the HDD

1. Enter the test mode. (Refer to page 21 "Entering The Test Mode")
2. Select the "Test Mode" from the test mode main menu by rotating the right jog dial (PUSH LIST), and press the right jog button (PUSH LIST) to enter the Test Mode.
3. Rotate the right jog dial (PUSH LIST) to select the "HDD", and press the right jog button (PUSH LIST) to enter the HDD mode.
4. Rotate the right jog dial (PUSH LIST) to select the "ID", and press the right jog button (PUSH LIST) to enter the ID mode.
5. Rotate the right jog dial (PUSH LIST) to select the "CREATE", and press the right jog button (PUSH LIST) to enter the ID CREATE mode.
6. Rotate the right jog dial (PUSH LIST) to select the "(OK)", and press the right jog button (PUSH LIST) to execute ID creating of the system ID.
7. Upon successful completion of ID creating, if the "ID-CREATE OK" or "ID-CREATE NG" is displayed. (Even if "NG" is displayed, there is no problem and proceed to the next step as it is)

8. Select the “COPY” from the ID menu by rotating the right jog dial (PUSH LIST), and press the right jog button (PUSH LIST) to enter the ID COPY mode.
9. Input the password for ID copy with the right jog dial and button (PUSH LIST).
10. Rotate the right jog dial (PUSH LIST) to select the “(OK)”, and press the right jog button (PUSH LIST) to execute ID copy to the HDD of the system ID.
11. Upon successful completion of ID copy, if the “ID-COPY OK” is displayed, release the test mode. (Power off)

• Data installing to the HDD

Note: Data installing may fail, if there is less available space in the hard disk.
If data installing failed, make a checking through the following procedure. Less space remains if “FULL CAPACITY” is displayed.
Checking Procedure:
(1) In the standby state with normal mode, press the [M] (MENU) button to display the menu screen.
(2) Rotate the right jog dial (PUSH LIST) to select the “Library”, and press the right jog button (PUSH LIST) to enter the Library mode.
(3) Rotate the right jog dial (PUSH LIST) to select the “CDDB Install”, and press the right jog button (PUSH LIST) and display confirmation screen of start the processing.
(4) Rotate the right jog dial (PUSH LIST) to select the “OK”, and press the right jog button (PUSH LIST).
Less space remains if “FULL CAPACITY” is displayed.

1. When the power is turned on, the initial setting screen is displayed. Press the right jog button (PUSH LIST) button repeatedly until tentative setting completed.
Note: Exact date and time need not be set.
2. Insert the CD-R for service.
3. Again in the test mode, select the “Test Mode” from the test mode main menu by rotating the right jog dial (PUSH LIST) and press the right jog button (PUSH LIST) to enter the Test Mode.
4. Rotate the right jog dial (PUSH LIST) to select the “INSTALL”, and press the right jog button (PUSH LIST) to enter the INSTALL mode.
5. Rotate the right jog dial (PUSH LIST) to select the “ALL(EUR)”, and press the right jog button (PUSH LIST), and the “INSTALL-ALL(EUR) “ will be displayed and the installation will start soon.
(process time: about 30 minutes)
6. Upon successful completion of installation, the “INSTALL-ALL(EUR) OK” will be displayed, and then remove the CD-R for service and release the test mode. (Power off)

• Operation check

1. Turn the power on again, and the initial setting screen will be displayed. Then, press the right jog button (PUSH LIST) button repeatedly until tentative setting completed.
Note: Exact date and time need not be set.
2. In the normal mode, press the [SOURCE] button to select the HDD mode and play recorded contents. Check that the recorded contents are played back normally.
3. Insert a music CD and press the [SOURCE] button to play.
4. Press the [● REC] button, rotate the right jog dial (PUSH LIST) to select the third item (musical note mark), and press the right jog button (PUSH LIST).
5. Press the function button 2 (ALL) to cancel the selection of all tracks. (A check mark on the right side of track number will disappear)
6. With the track number 1 selected, press the right jog button (PUSH LIST). (A check mark will be displayed on the right side of track number 1 only)
7. Press the [● REC] button to start the recording.
8. Check that the progress bar is processing and remaining amount of time for recording indicated next to the bar is decreasing.
9. Press the function 1 (☐) button to quit recording.

3) When The Only HDD Was Replaced

Note: Executing this operation without replacing the hard disk drive causes the user data to be erased. Accordingly, do not execute this operation by mistake.

When the hard disk drive (HDD) was replaced, the processing such as formatting is required. After the HDD replacement, be sure to execute all of the following steps.

1. HDD replacement
↓
2. HDD formatting
↓
3. ID copy to the HDD
↓
4. Data installing to the HDD
↓
5. Operation check
↓
6. The Factory Setting

Procedure:

• HDD formatting

1. After replacing the HDD, turn the power on and enter the test mode. (Refer to page 21 “Entering The Test Mode”)
2. Select the “Test Mode” from the test mode main menu by rotating the right jog dial (PUSH LIST), and press the right jog button (PUSH LIST) to enter the Test Mode.
3. Rotate the right jog dial (PUSH LIST) to select the “HDD”, and press the right jog button (PUSH LIST) to enter the HDD mode.
4. Rotate the right jog dial (PUSH LIST) to select the “FORMAT”, and press the right jog button (PUSH LIST) to enter the FORMAT mode.
5. With the Format mode activated, press the right jog button (PUSH LIST), and the “HDD-FORMAT hddDbInit...” will be displayed and then the HDD formatting will start soon.
6. Upon successful completion of HDD formatting, “HDD-FORMAT OK” will be displayed. Then, press the right jog button (PUSH LIST) to return to the FORMAT menu, and further press the function button 1 to return to the HDD menu.

• ID copy to the HDD

1. Select the “ID” from the HDD menu by rotating the right jog dial (PUSH LIST), and press the right jog button (PUSH LIST) to enter the ID mode.
2. Rotate the right jog dial (PUSH LIST) to select the “COPY”, and press the right jog button (PUSH LIST) to enter the ID COPY mode.
3. Rotate the right jog dial (PUSH LIST) to select the “(OK)”, and press the right jog button (PUSH LIST) to execute ID copy to the HDD of the system ID.
4. Upon successful completion of ID copy, if the “ID-COPY OK” is displayed, release the test mode. (Power off)

• Data installing to the HDD

1. When the power is turned on, the initial setting screen is displayed. Press the right jog button (PUSH LIST) button repeatedly until tentative setting completed.
   Note: Exact date and time need not be set.
2. Insert the CD-R for version up.
3. Again in the test mode, select the “Test Mode” from the test mode main menu by rotating the right jog dial (PUSH LIST) and press the right jog button (PUSH LIST) to enter the Test Mode.
4. Rotate the right jog dial (PUSH LIST) to select the “INSTALL”, and press the right jog button (PUSH LIST) to enter the INSTALL mode.
5. Rotate the right jog dial (PUSH LIST) to select the “ALL(EUR)”, and press the right jog button (PUSH LIST), and the “INSTALL-ALL(EUR)” will be displayed and the installation will start soon.
   (process time: about 30 minutes)
6. Upon successful completion of installation, the “INSTALL-ALL(EUR) OK” will be displayed, and then remove the CD-R for installation and exit the test mode. (Power off)

• Operation check

1. Turn the power on again, and the initial setting screen will be displayed. Then, press the right jog button (PUSH LIST) button repeatedly until tentative setting completed.
   Note: Exact date and time need not be set.
2. Insert a music CD and press the [SOURCE] button to play.
3. Press the [● REC] button, rotate the right jog dial (PUSH LIST) to select the third item (musical note mark), and press the right jog button (PUSH LIST).
4. Press the function button 2 (ALL) to cancel the selection of all tracks. (A check mark on the right side of track number will disappear)
5. With the track number 1 selected, press the right jog button (PUSH LIST). (A check mark will be displayed on the right side of track number 1 only)
6. Press the [● REC] button to start the recording.
7. Upon completion of the recording, a peep will be heard and the [● REC] button will change its color from red to blue.
8. Press the [SOURCE] button to start the play of HDD. Check that the HDD is played back normally.

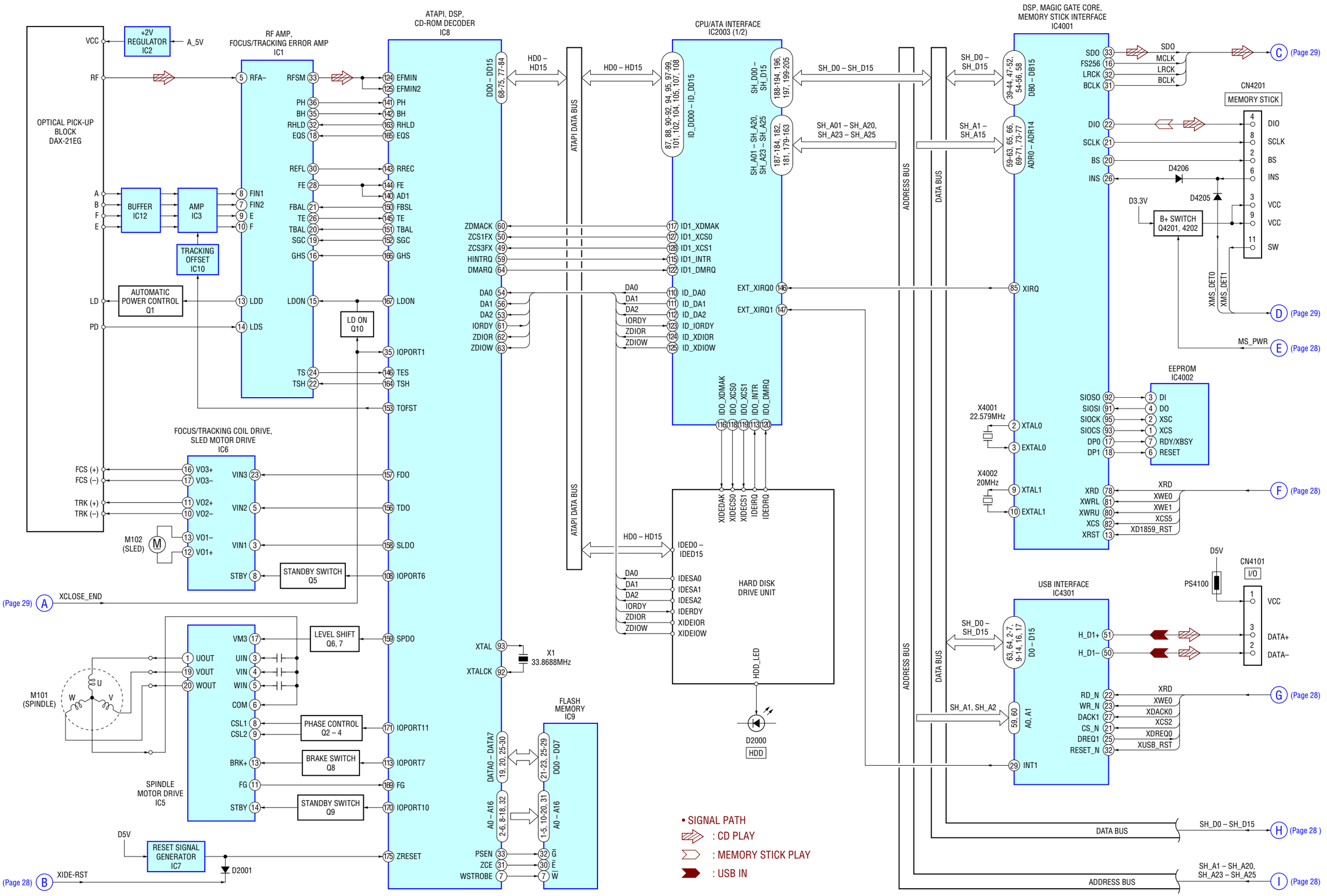
• Factory Setting

Note: The “Factory Setting” command deletes the data recorded on the hard disk. Only if the hard disk drive was replaced, execute this command to erase the data for operation check before returning the set to the customer.

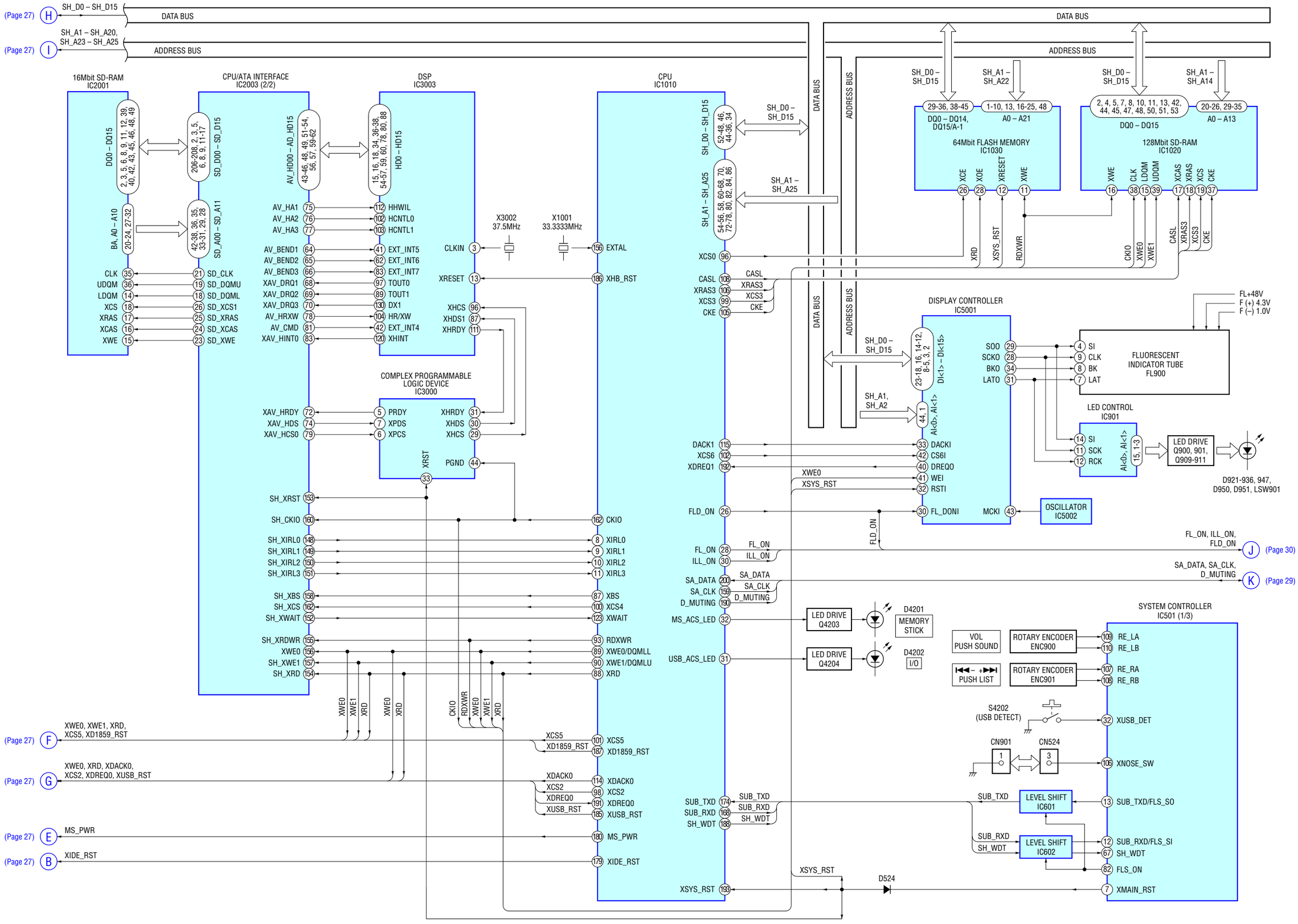
1. Remove the CD and press the [OFF] button to activate the standby state, and then enter the test mode.
2. Select the “Test Mode” from the test mode main menu by rotating the right jog dial (PUSH LIST) and press the right jog button (PUSH LIST) to enter the Test Mode.
3. Rotate the right jog dial (PUSH LIST) to select the “Factory Setting”, and press the right jog button (PUSH LIST) to start the processing.
4. Upon completion of all of the processing, “Factory Setting-OK” will be displayed, and then the system will be reset and will restart automatically.

SECTION 6
DIAGRAMS

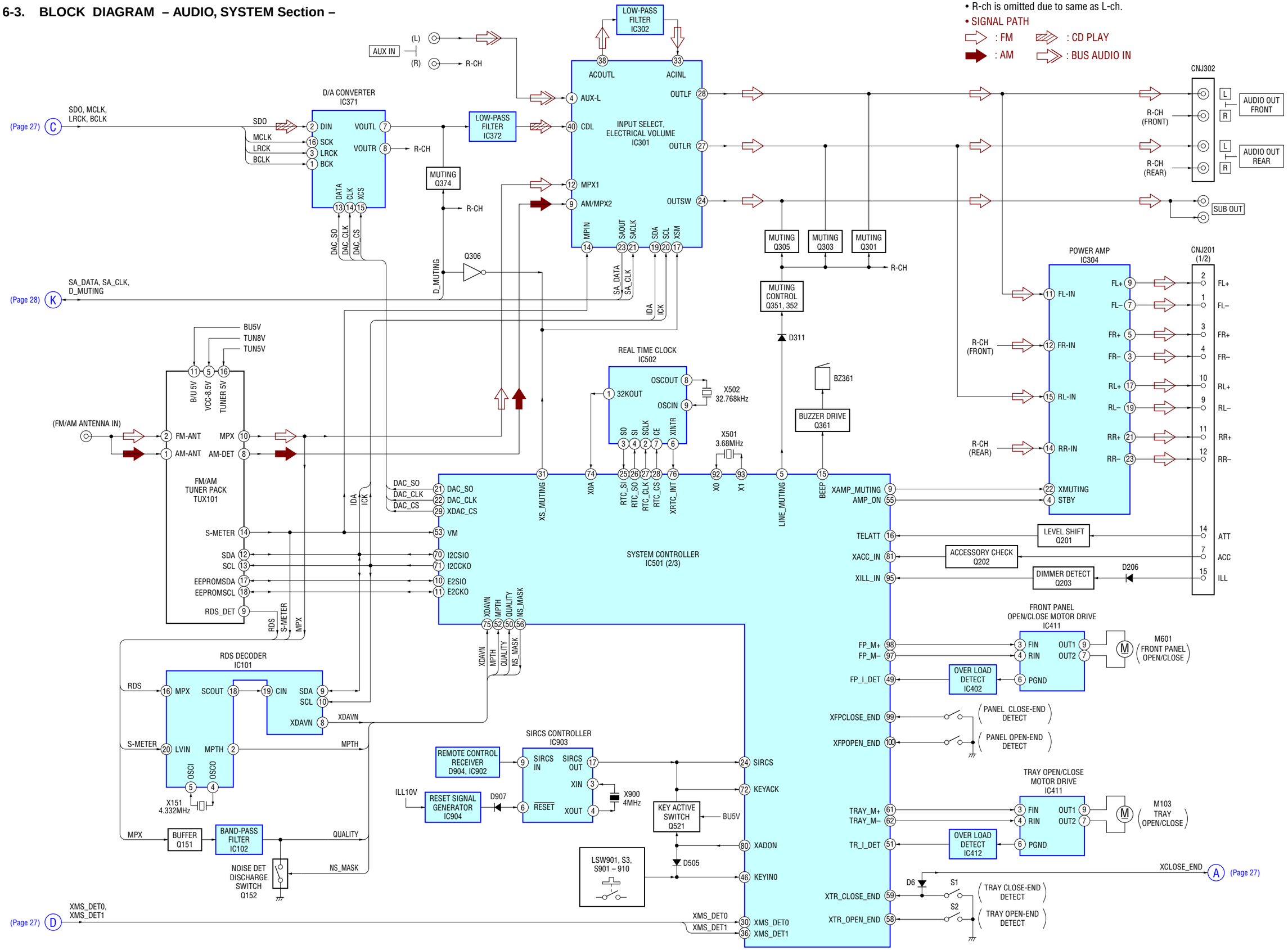
6-1. BLOCK DIAGRAM – SERVO, HD/MS/USB INTERFACE Section –



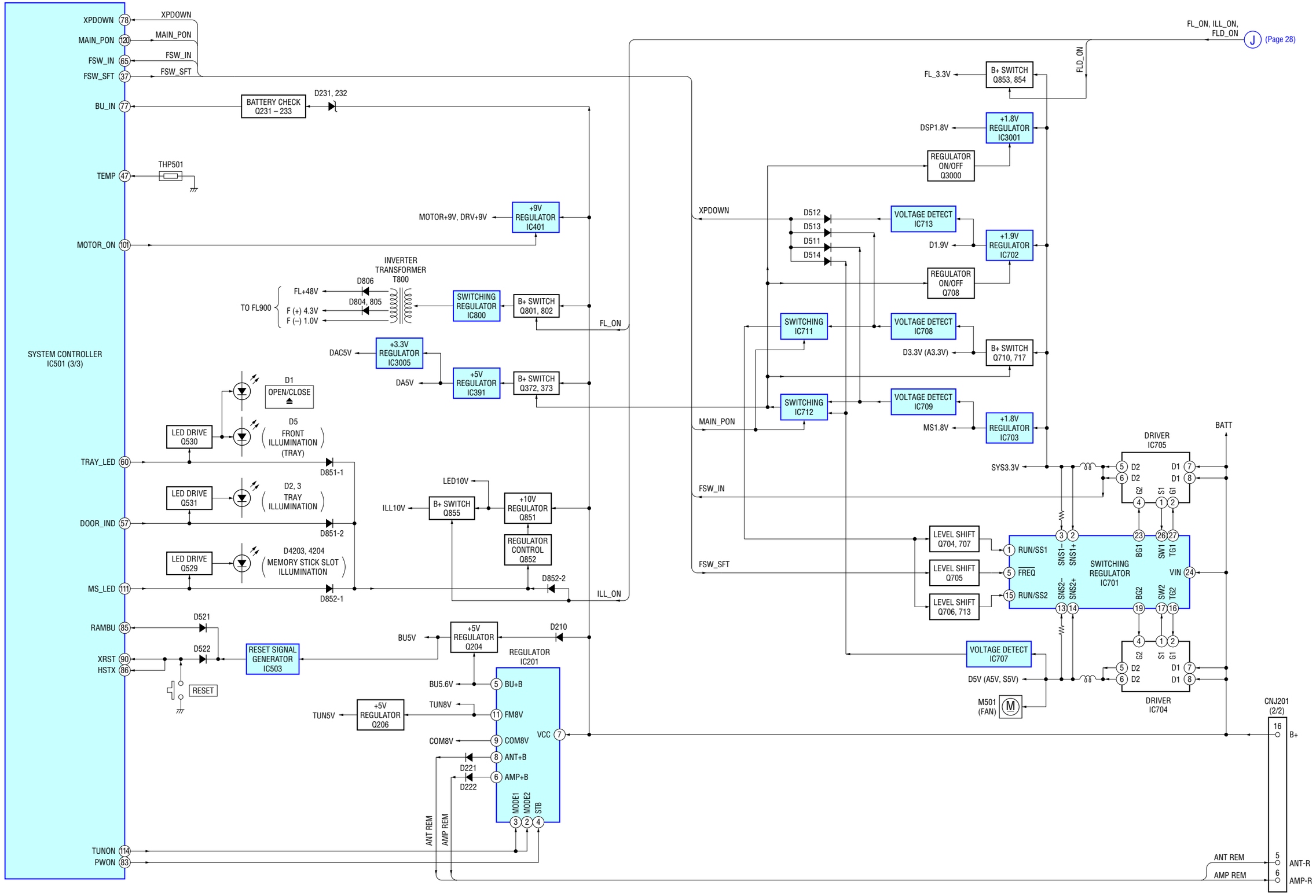
6-2. BLOCK DIAGRAM – CPU, DISPLAY Section –



6-3. BLOCK DIAGRAM – AUDIO, SYSTEM Section –



6-4. BLOCK DIAGRAM – POWER SUPPLY Section –



6-5. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- ▬▬ : B+ Line.
- ▬ ▬ ▬ : B– Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : CD PLAY
  ( ) : HD
  ⟨⟨ ⟩⟩ : FM
  [ ] : AM
  ∗ : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
  ➡ : AM
  : MEMORY STICK PLAY
  : USB IN
  : CD

Note on Printed Wiring Boards:

- o——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- △ : internal component.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

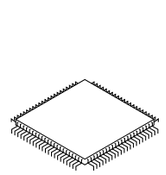
Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

Caution:	
Pattern face side: (Side B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A)	Parts on the parts face side seen from the parts face are indicated.

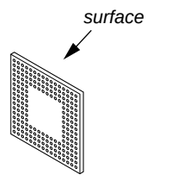
- SERVO board, MAIN board, SUB board and POWER board are multi-layer printed boards.
  However, the patterns of intermediate-layer have not been included in these diagrams.

* Replacement of IC3003 and IC4001 used in this set requires a special tool.

- Lead Layouts

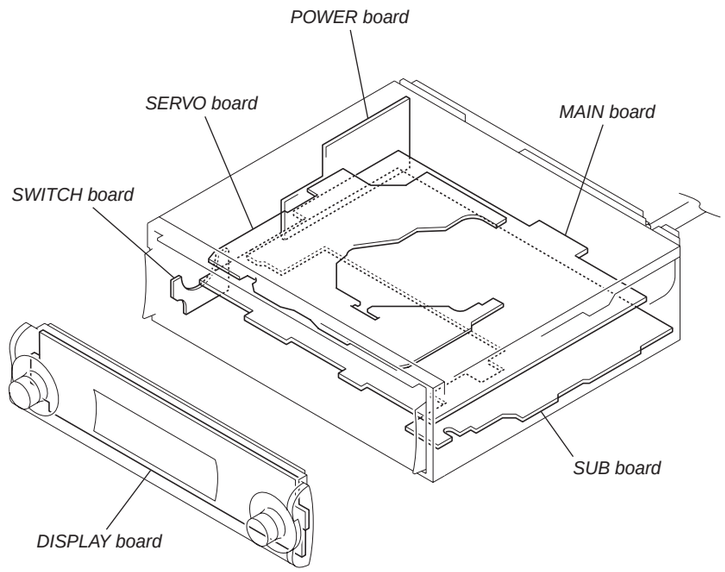


Lead layout of conventional IC



CSP (chip size package)

- **Circuit Boards Location**

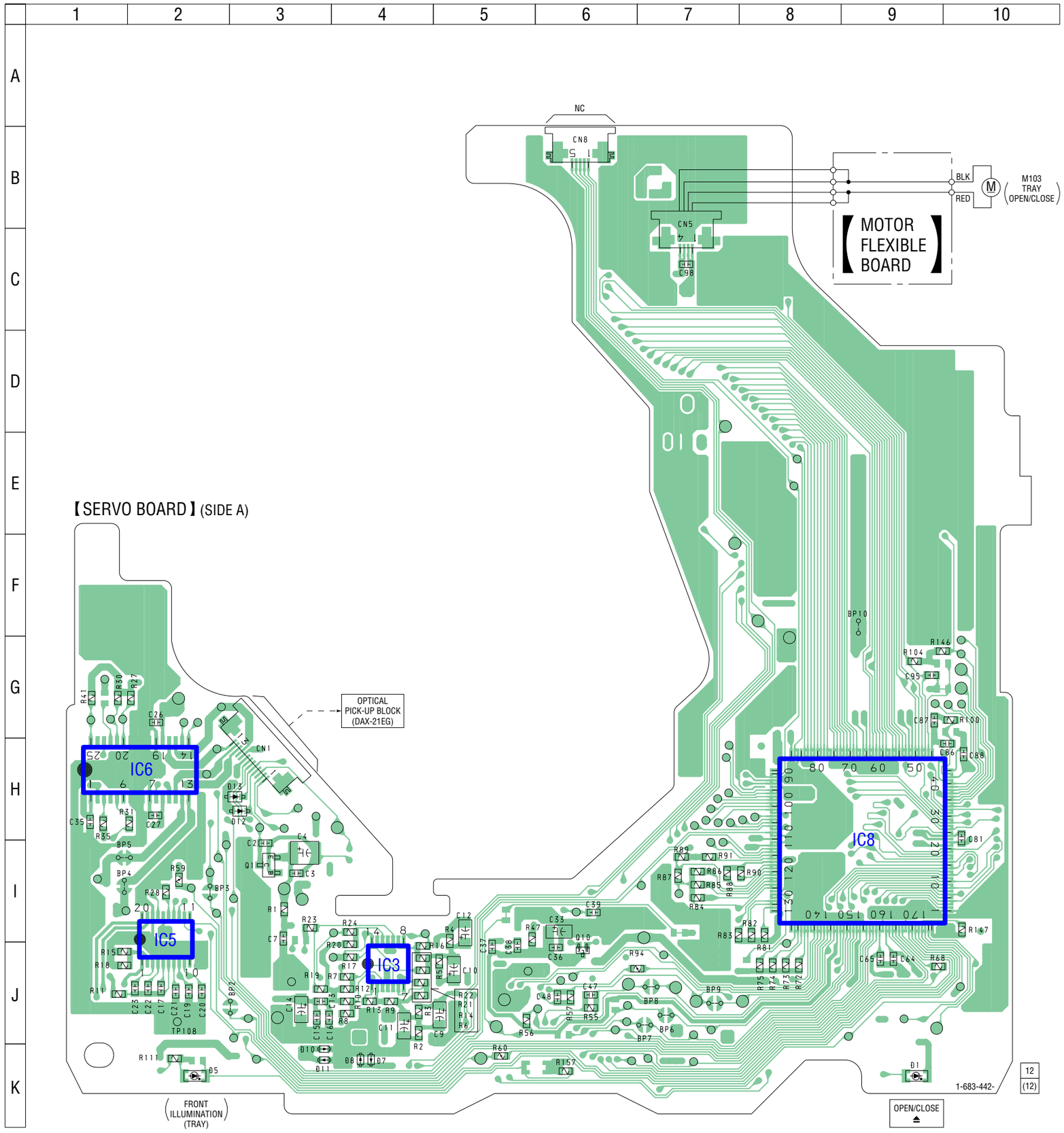


6-6. PRINTED WIRING BOARD – SERVO Board (Side A) –

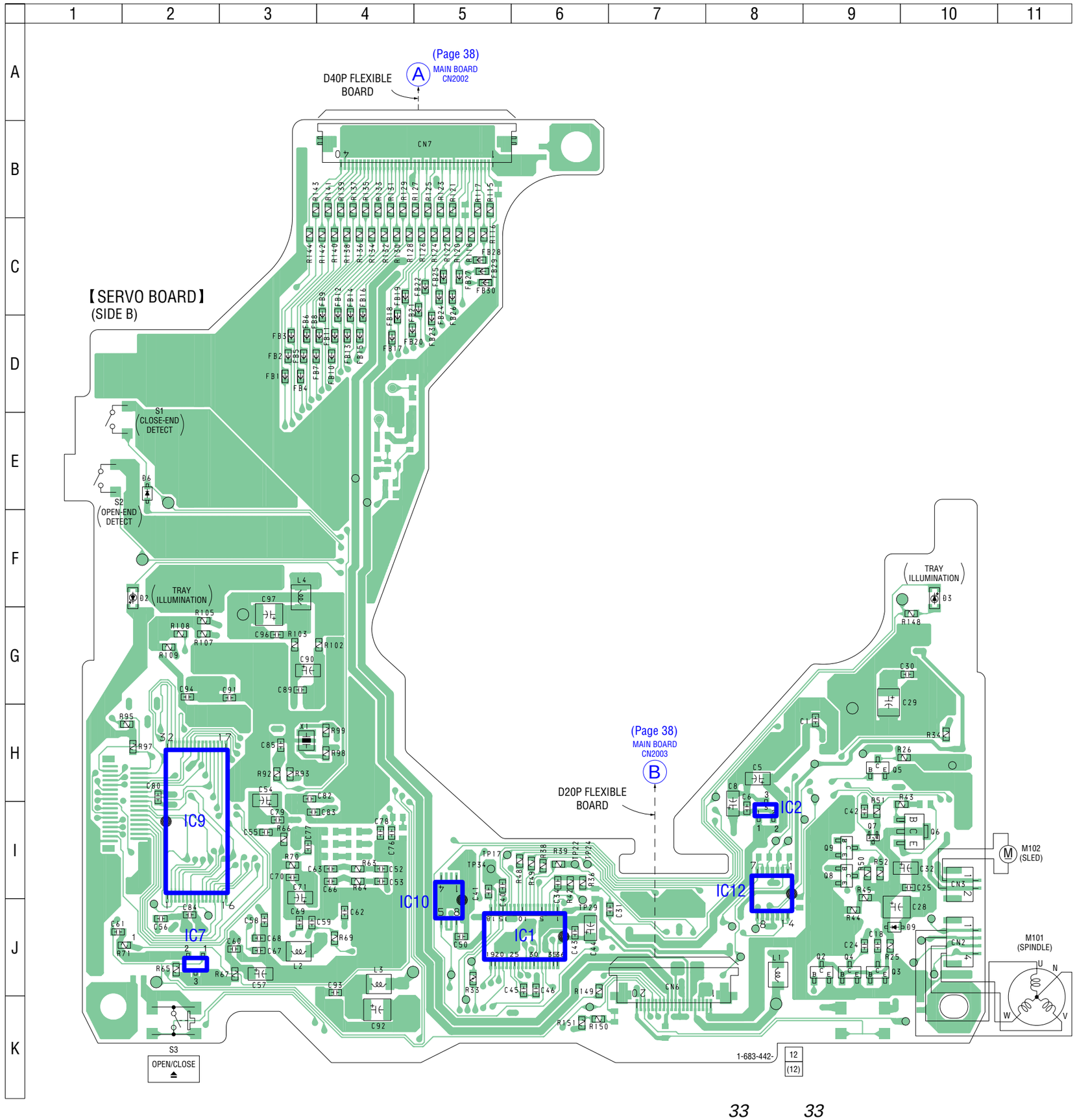
• See page 31 for Circuit Boards Location.

• **Semiconductor Location**

Ref. No.	Location
D1	K-9
D5	K-2
D7	K-4
D8	K-4
D10	K-3
D11	K-3
D12	H-3
D13	H-3
IC3	J-4
IC5	I-2
IC6	H-2
IC8	H-9
Q1	I-3
Q10	J-6



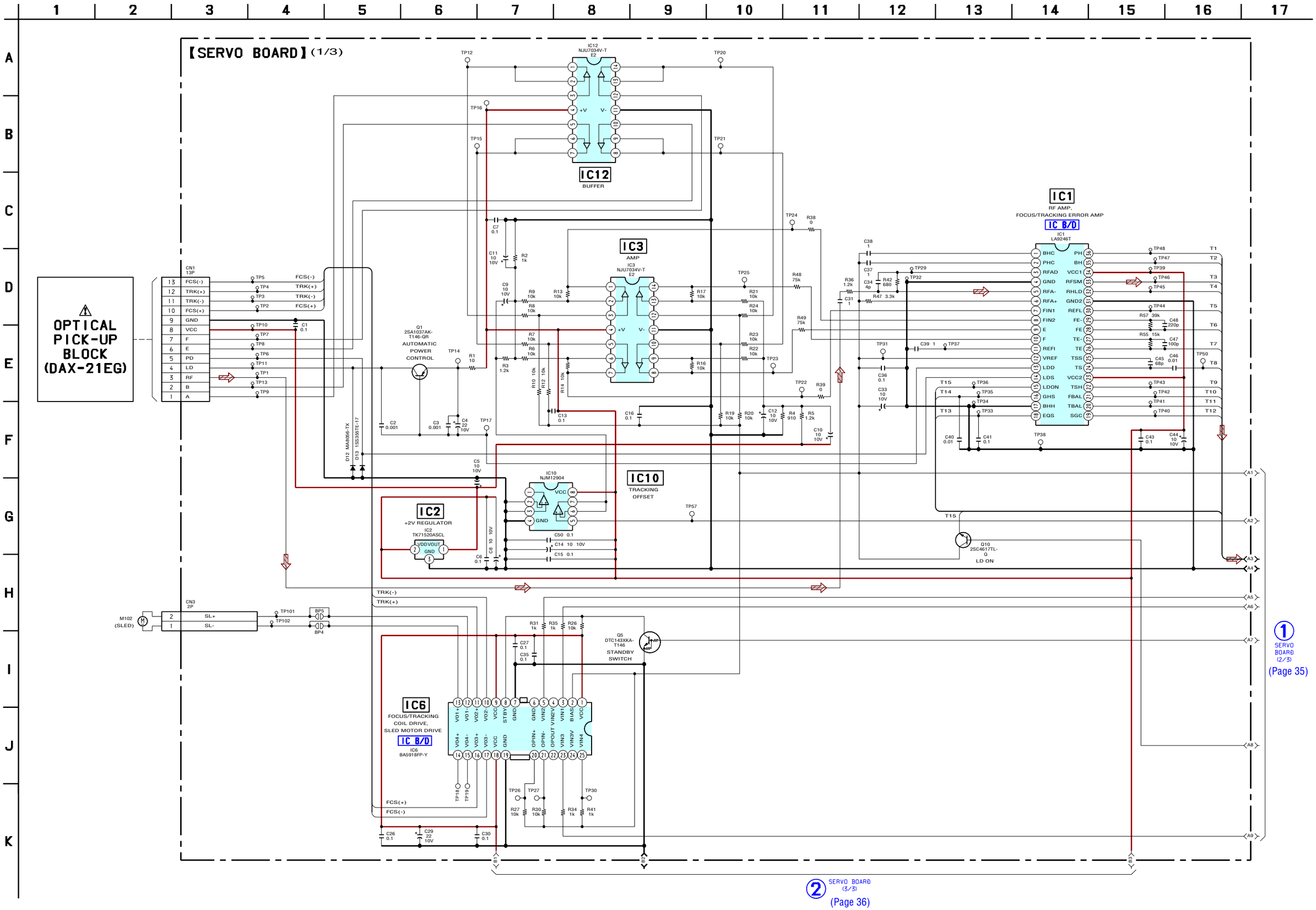
6-7. PRINTED WIRING BOARD – SERVO Board (Side B) – • See page 31 for Circuit Boards Location.



- **Semiconductor Location**

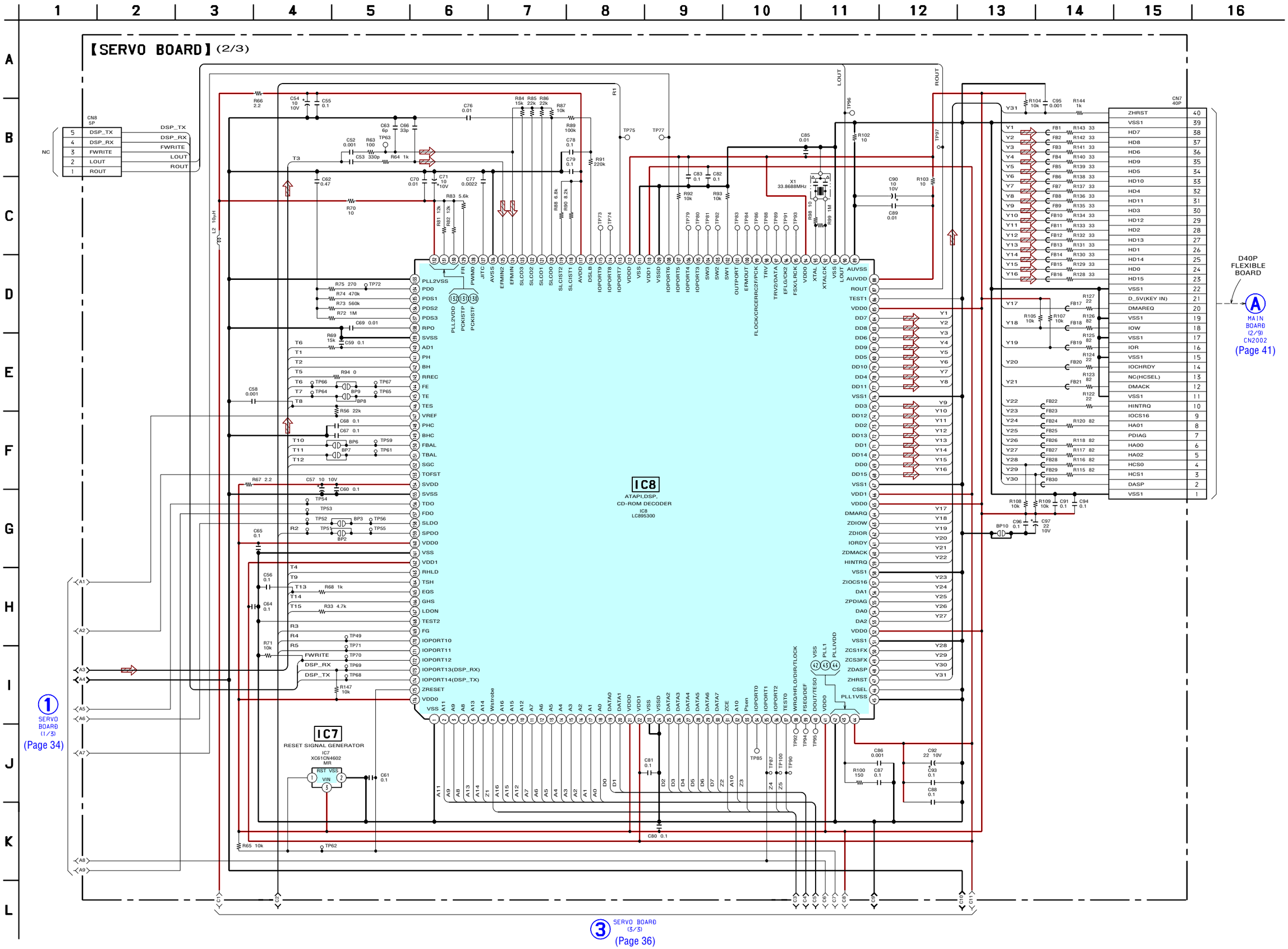
Ref. No.	Location
D2	F-2
D3	F-10
D6	E-2
D9	J-9
IC1	J-6
IC2	I-8
IC7	J-2
IC9	I-2
IC10	J-5
IC12	I-8
Q2	J-9
Q3	J-9
Q4	J-9
Q5	H-9
Q6	I-10
Q7	I-9
Q8	I-9
Q9	I-9

6-8. SCHEMATIC DIAGRAM – SERVO Board (1/3) – • See page 60 for IC Block Diagrams.

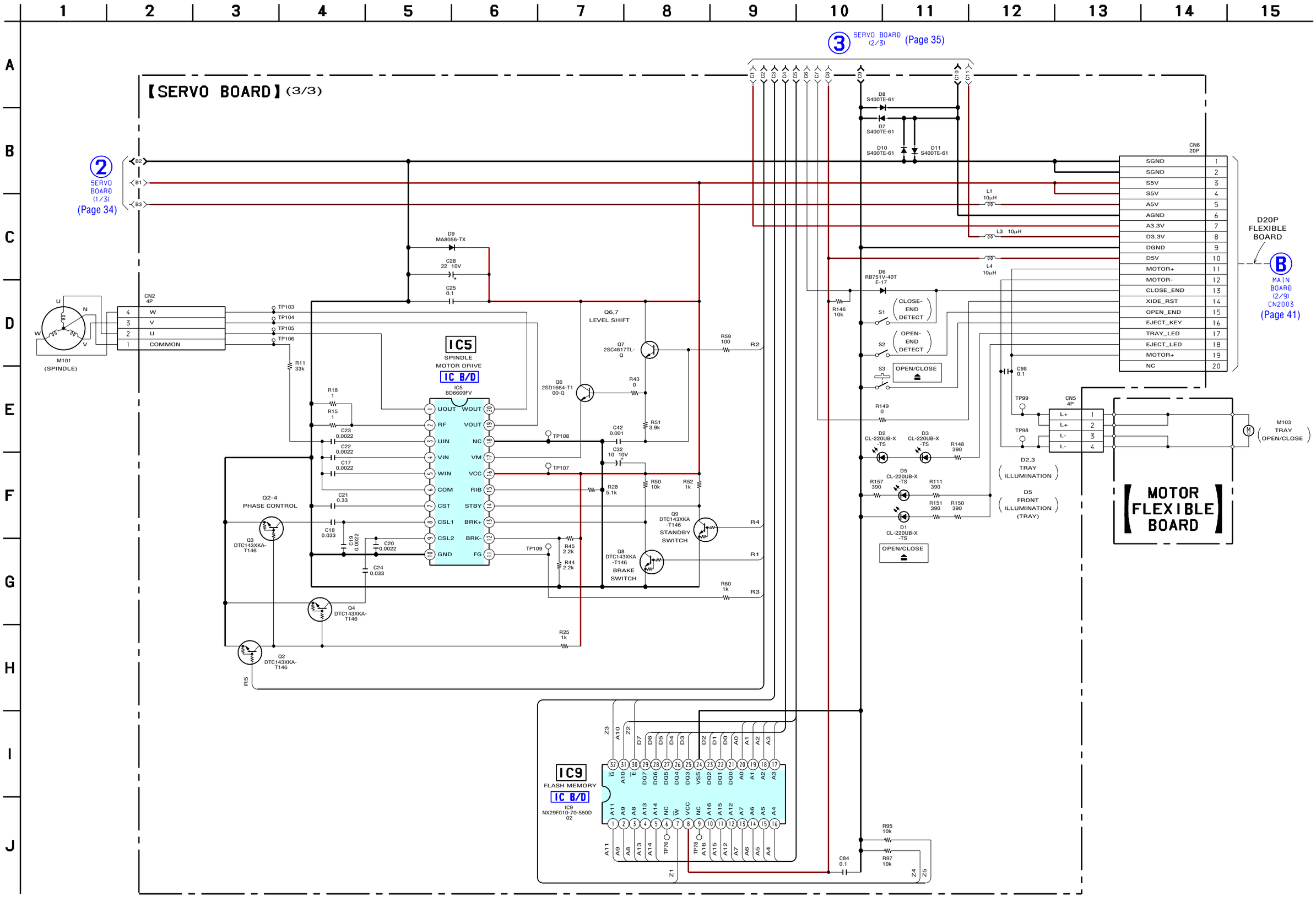


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

6-9. SCHEMATIC DIAGRAM – SERVO Board (2/3) –



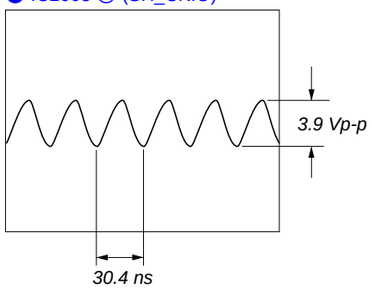
6-10. SCHEMATIC DIAGRAM – SERVO Board (3/3) – • See page 60 for IC Block Diagrams.



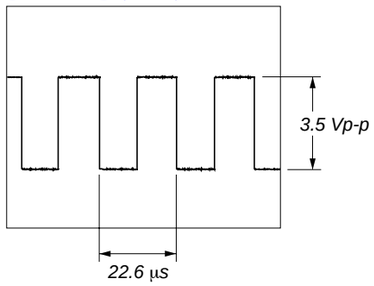
• **Waveforms**

– MAIN Board –

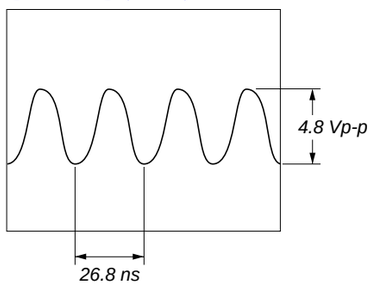
❶ IC2003 ⑯ (SH_CKIO)



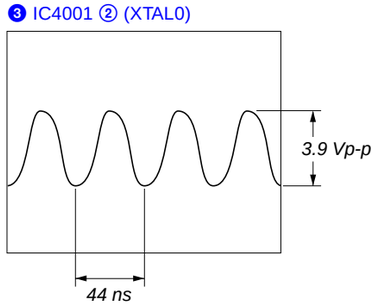
❼ IC4001 ㉜ (LRCK)



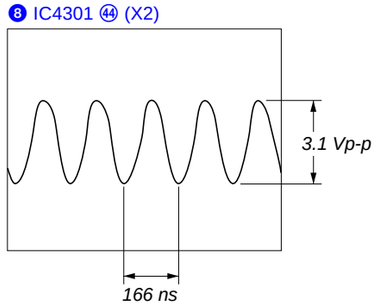
⓬ IC3003 ③ (CLKIN)



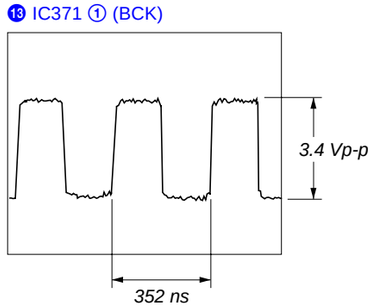
❸ IC4001 ② (XTAL0)



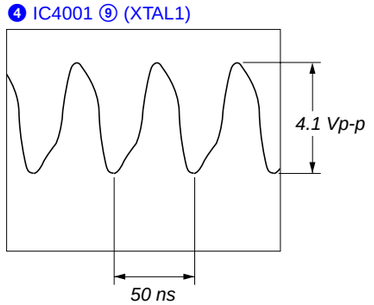
❽ IC4301 ㊹ (X2)



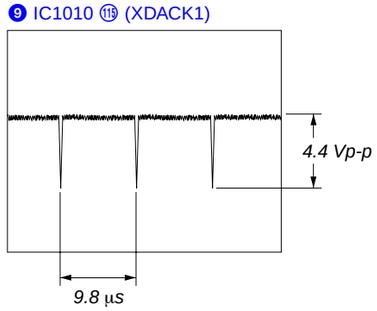
⓭ IC371 ① (BCK)



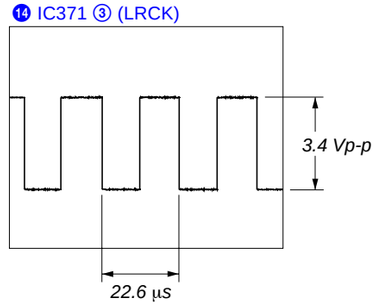
❹ IC4001 ⑨ (XTAL1)



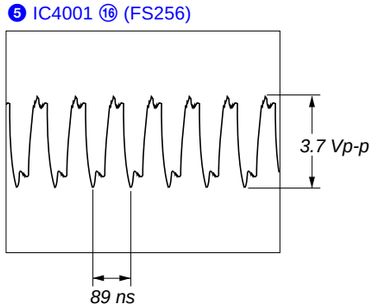
❾ IC1010 ⑪⑨ (XDACK1)



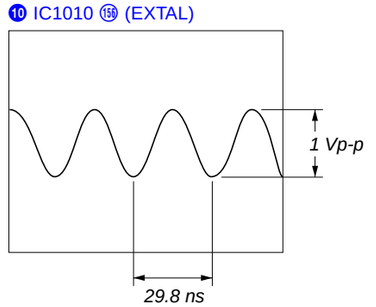
⓮ IC371 ③ (LRCK)



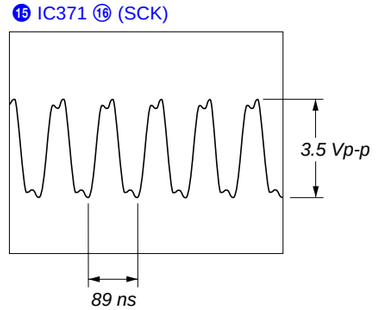
❺ IC4001 ⑯ (FS256)



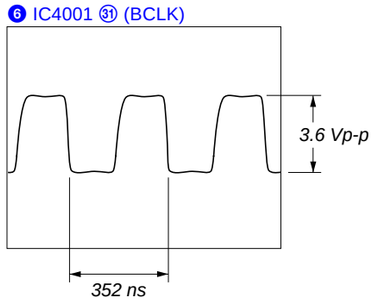
❿ IC1010 ⑮⑤ (EXTAL)



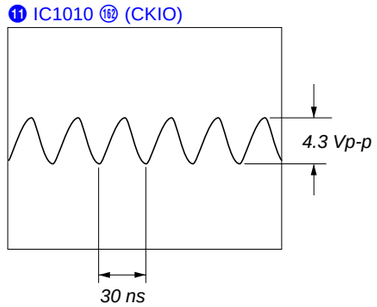
⓯ IC371 ⑯ (SCK)



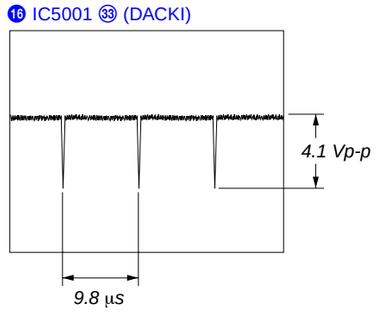
❻ IC4001 ㉛ (BCLK)



⓫ IC1010 ⑯② (CKIO)

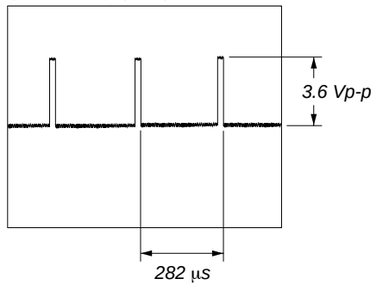


⓰ IC5001 ㉝ (DACKI)

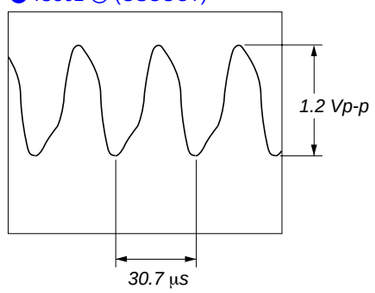


– SUB Board –

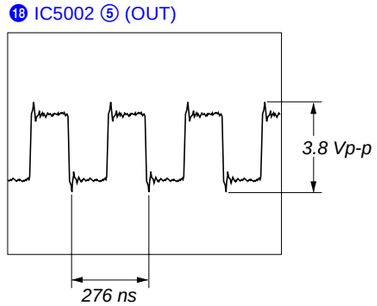
⓱ IC5001 ㉞ (BKO)



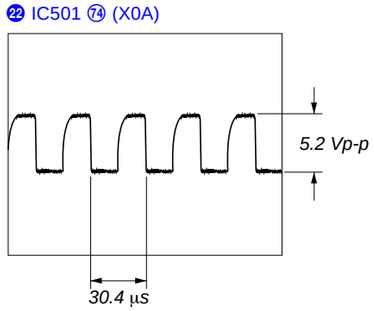
㉑ IC502 ⑧ (OSCOUT)



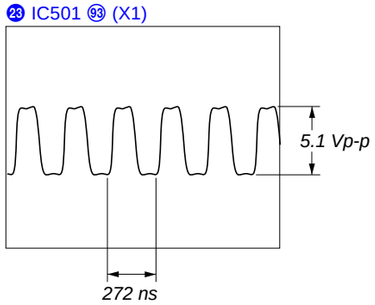
⓲ IC5002 ⑤ (OUT)



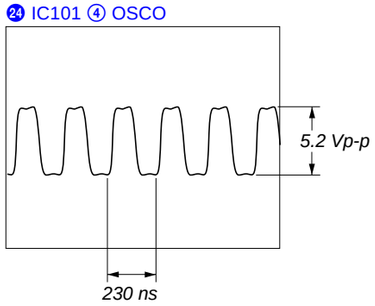
㉒ IC501 ㉞ (X0A)



㉓ IC501 ㉝ (X1)

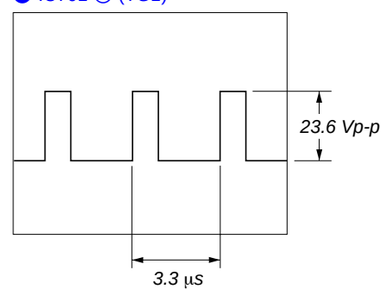


㉔ IC101 ④ OSCO

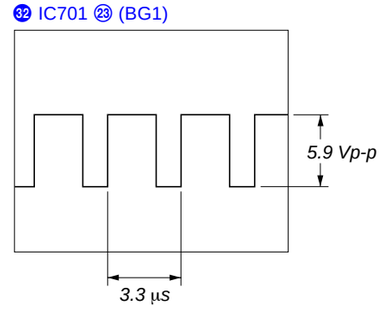


– POWER Board –

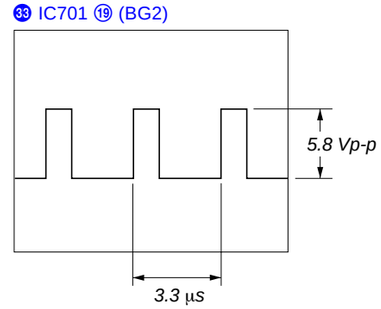
㉛ IC701 ㉗ (TG1)



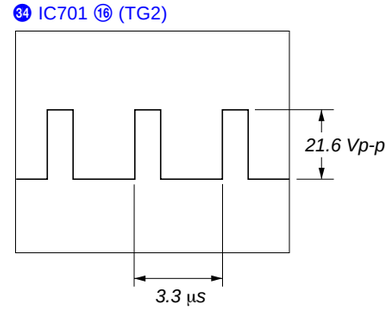
㉜ IC701 ㉓ (BG1)



㉝ IC701 ⑲ (BG2)

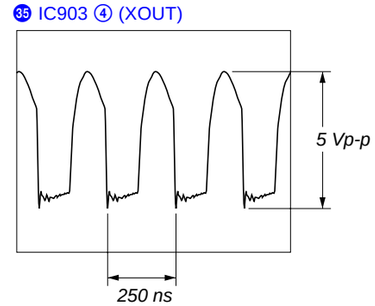


㉞ IC701 ⑯ (TG2)



– DISPLAY Board –

㉟ IC903 ④ (XOUT)

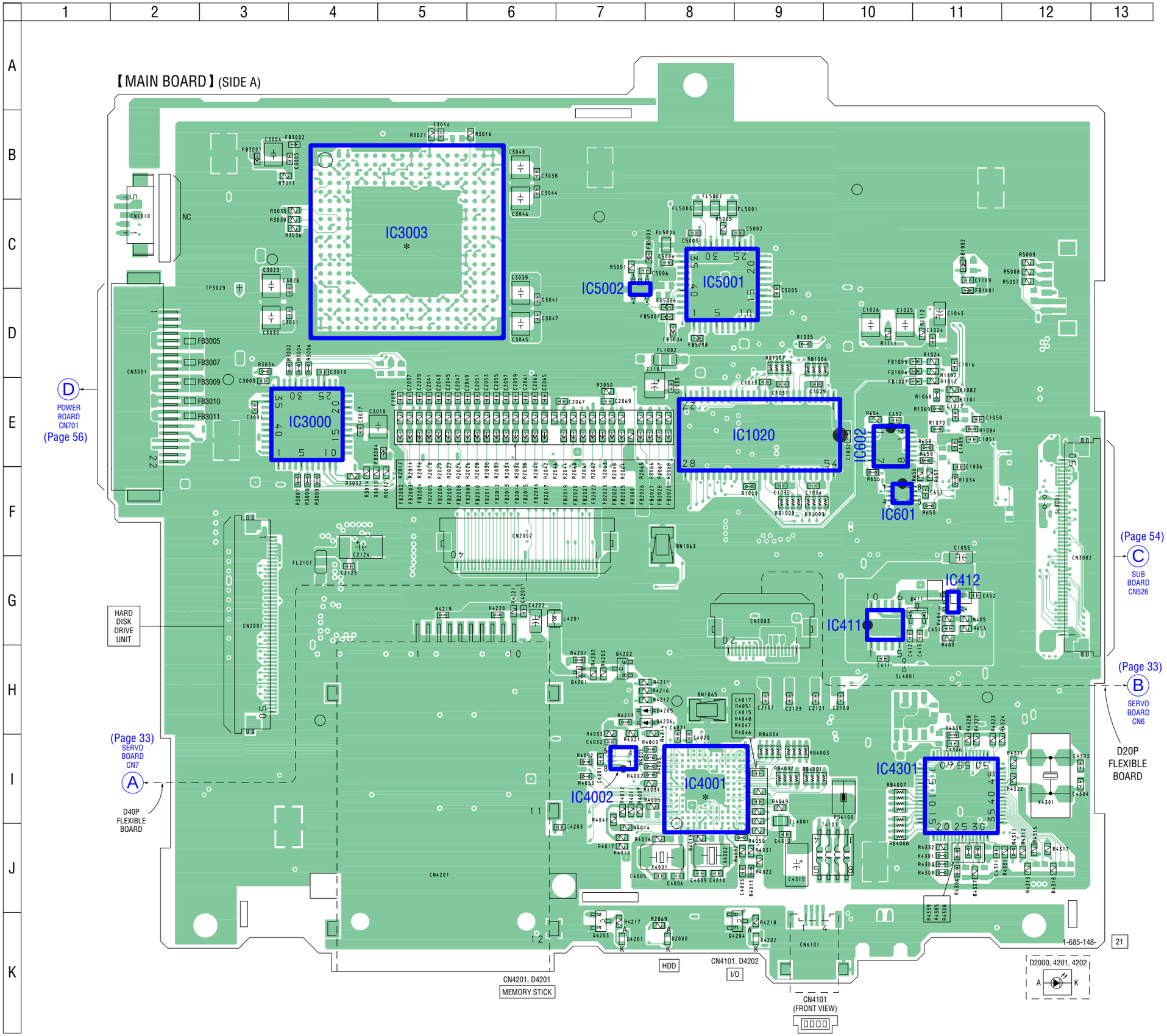


6-11. PRINTED WIRING BOARD – MAIN Board (Side A) –

• See page 31 for Circuit Boards Location.

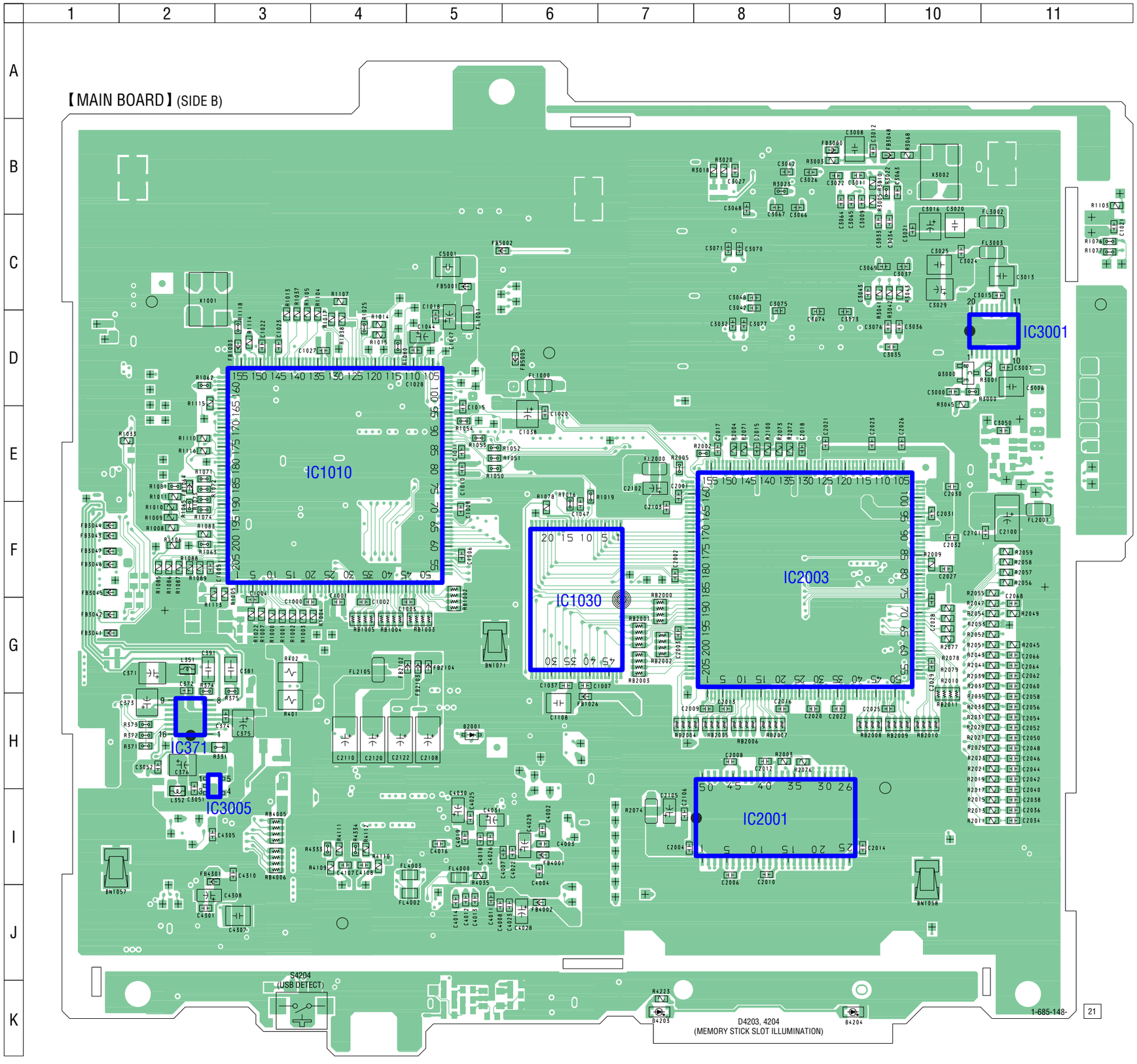
- **Semiconductor Location**

Ref. No.	Location
D411	G-11
D2000	K-8
D4201	K-7
D4202	K-9
D4205	H-8
D4206	H-8
IC411	G-10
IC412	G-11
IC601	F-10
IC602	E-10
IC1020	E-9
IC3000	E-4
IC3003	C-5
IC4001	I-8
IC4002	I-7
IC4301	I-11
IC5001	C-8
IC5002	D-7
Q4201	H-7
Q4202	H-7
Q4203	K-7
Q4204	K-9



6-12. PRINTED WIRING BOARD – MAIN Board (Side B) –

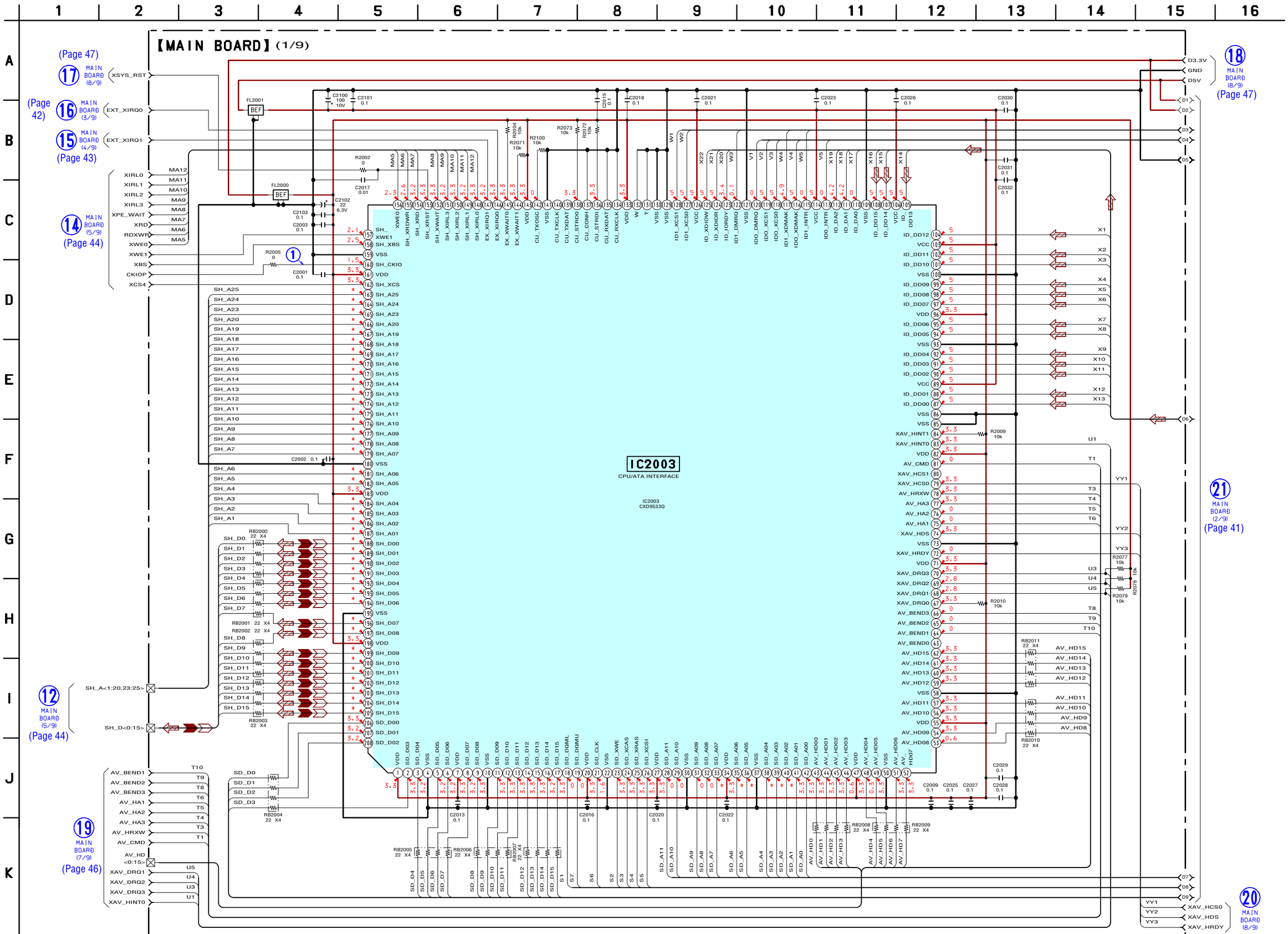
• See page 31 for Circuit Boards Location.



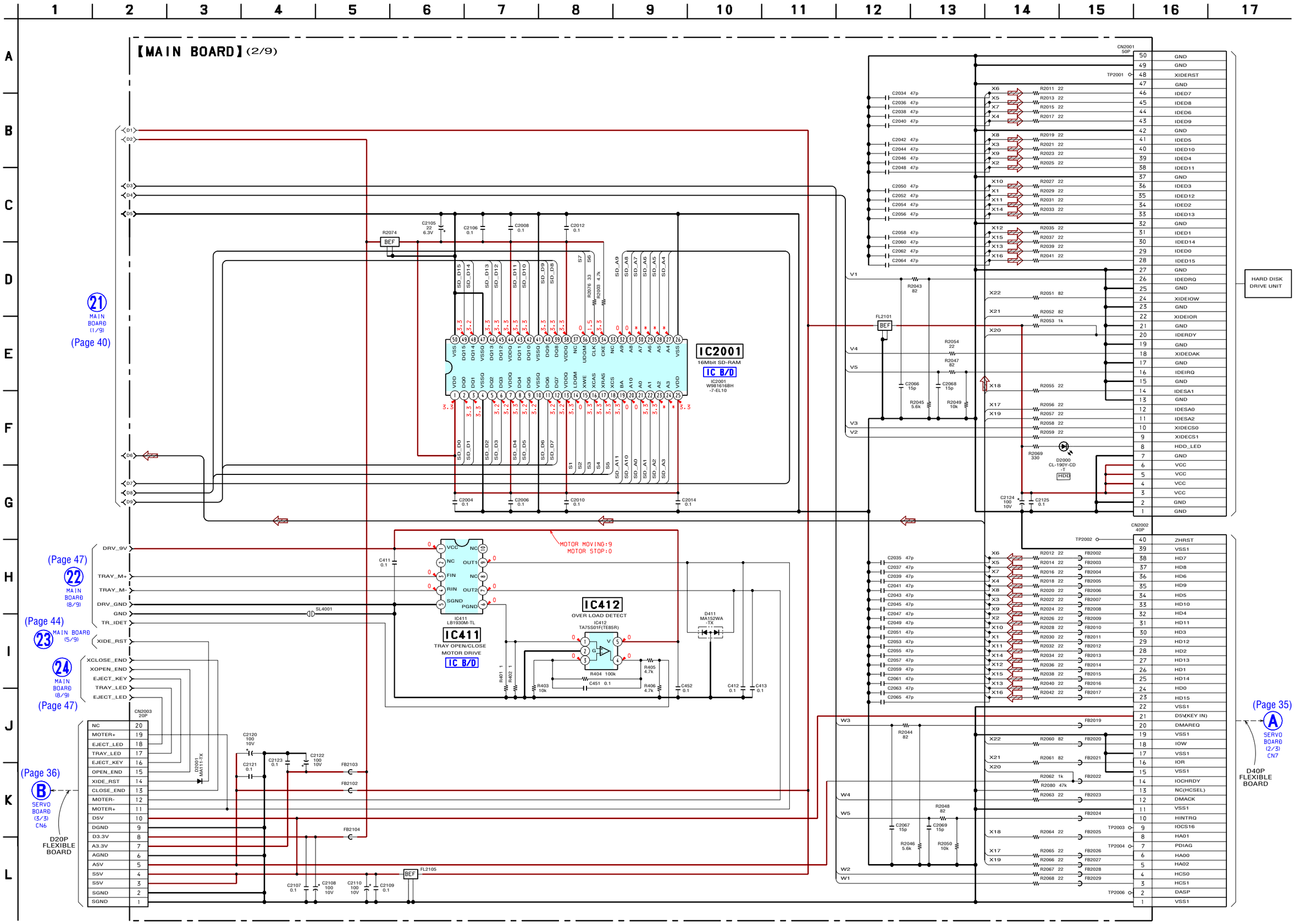
- **Semiconductor Location**

Ref. No.	Location
D2001	H-5
D4203	K-7
D4204	K-9
IC371	H-2
IC1010	E-4
IC1030	G-6
IC2001	I-8
IC2003	F-9
IC3001	D-11
IC3005	H-2
Q3000	D-10

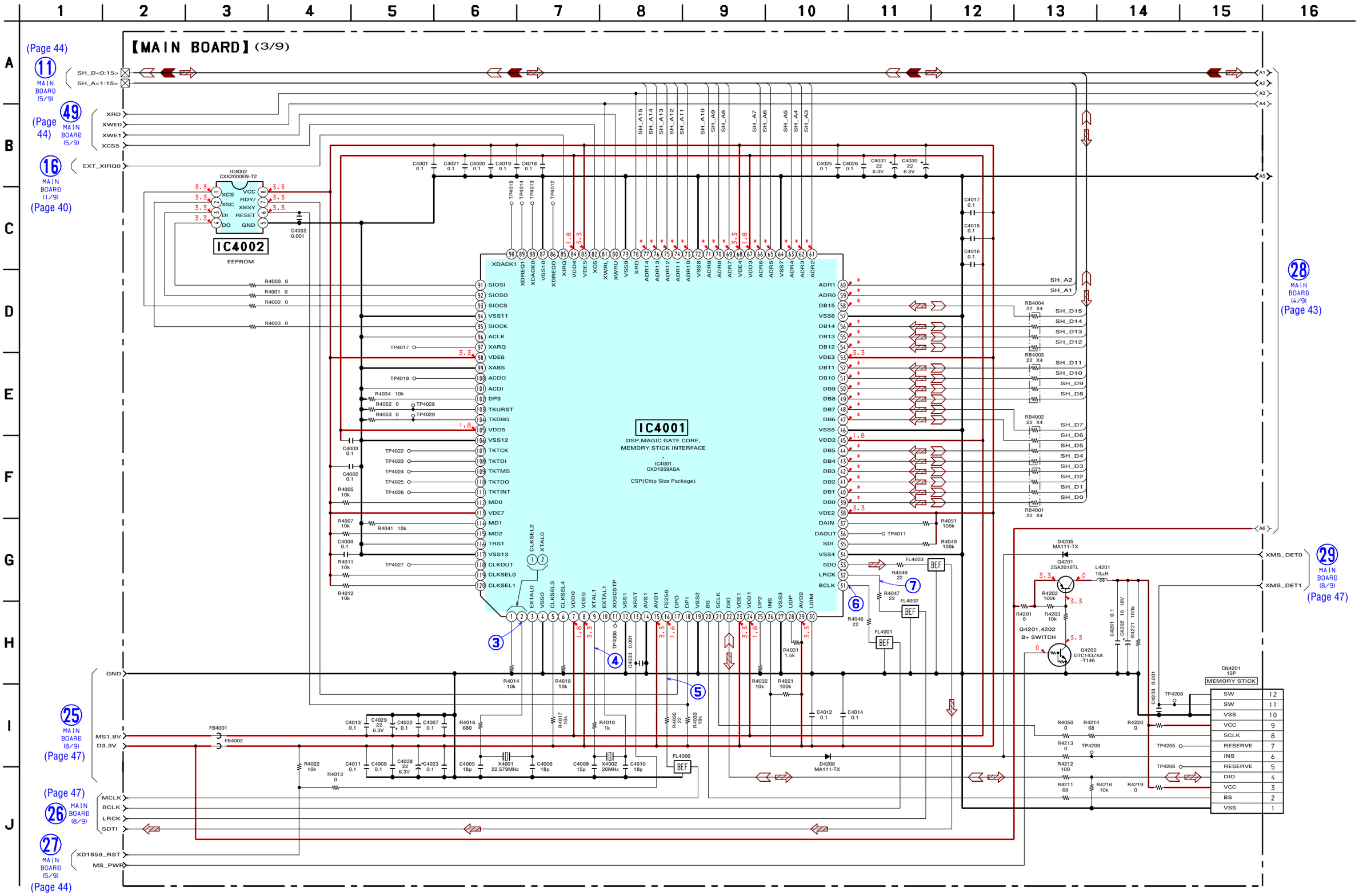
6-13. SCHEMATIC DIAGRAM – MAIN Board (1/9) – • See page 37 for Waveform.



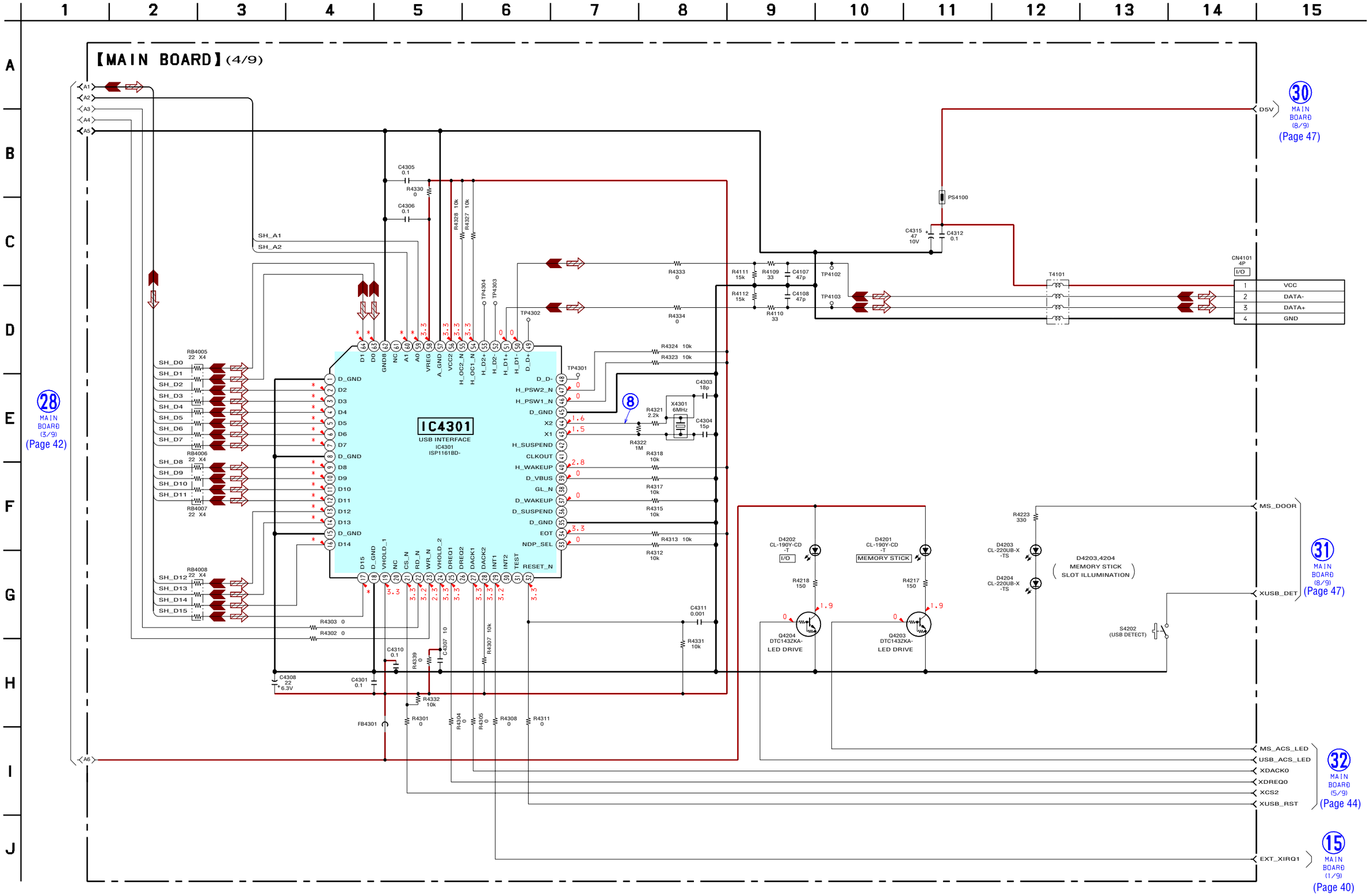
6-14. SCHEMATIC DIAGRAM – MAIN Board (2/9) – • See page 60 for IC Block Diagrams.



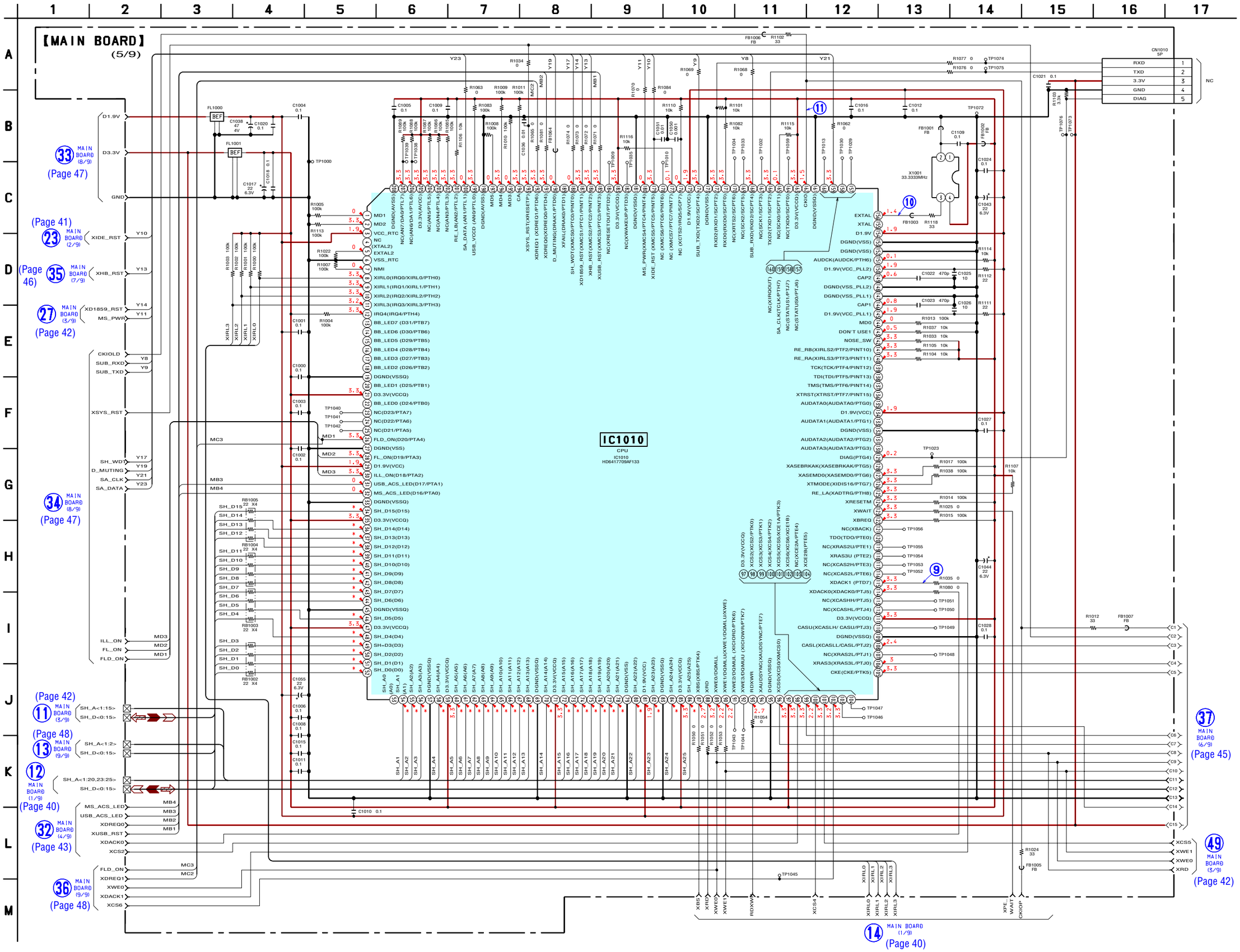
6-15. SCHEMATIC DIAGRAM – MAIN Board (3/9) – • See page 37 for Waveforms.



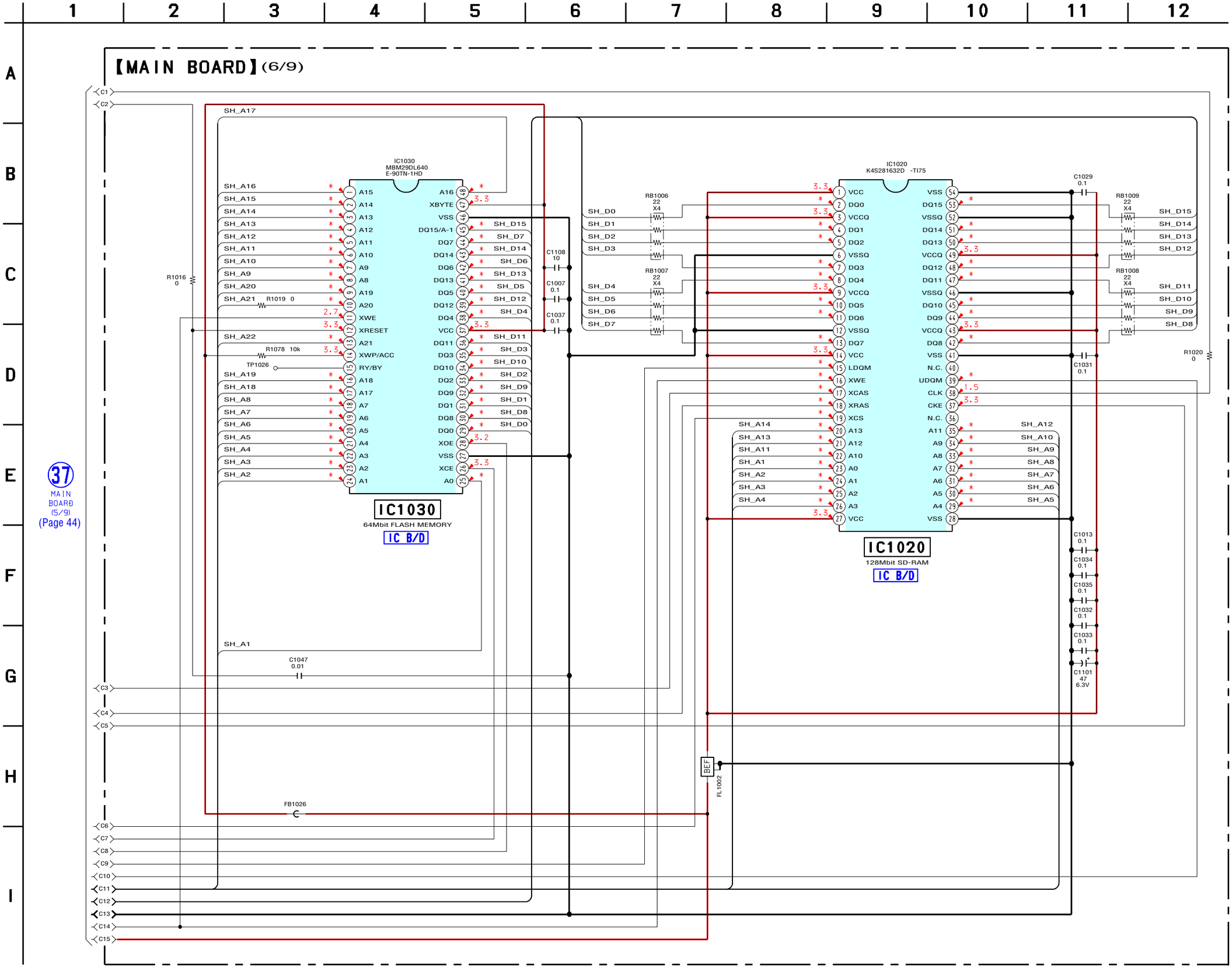
6-16. SCHEMATIC DIAGRAM – MAIN Board (4/9) – • See page 37 for Waveform.



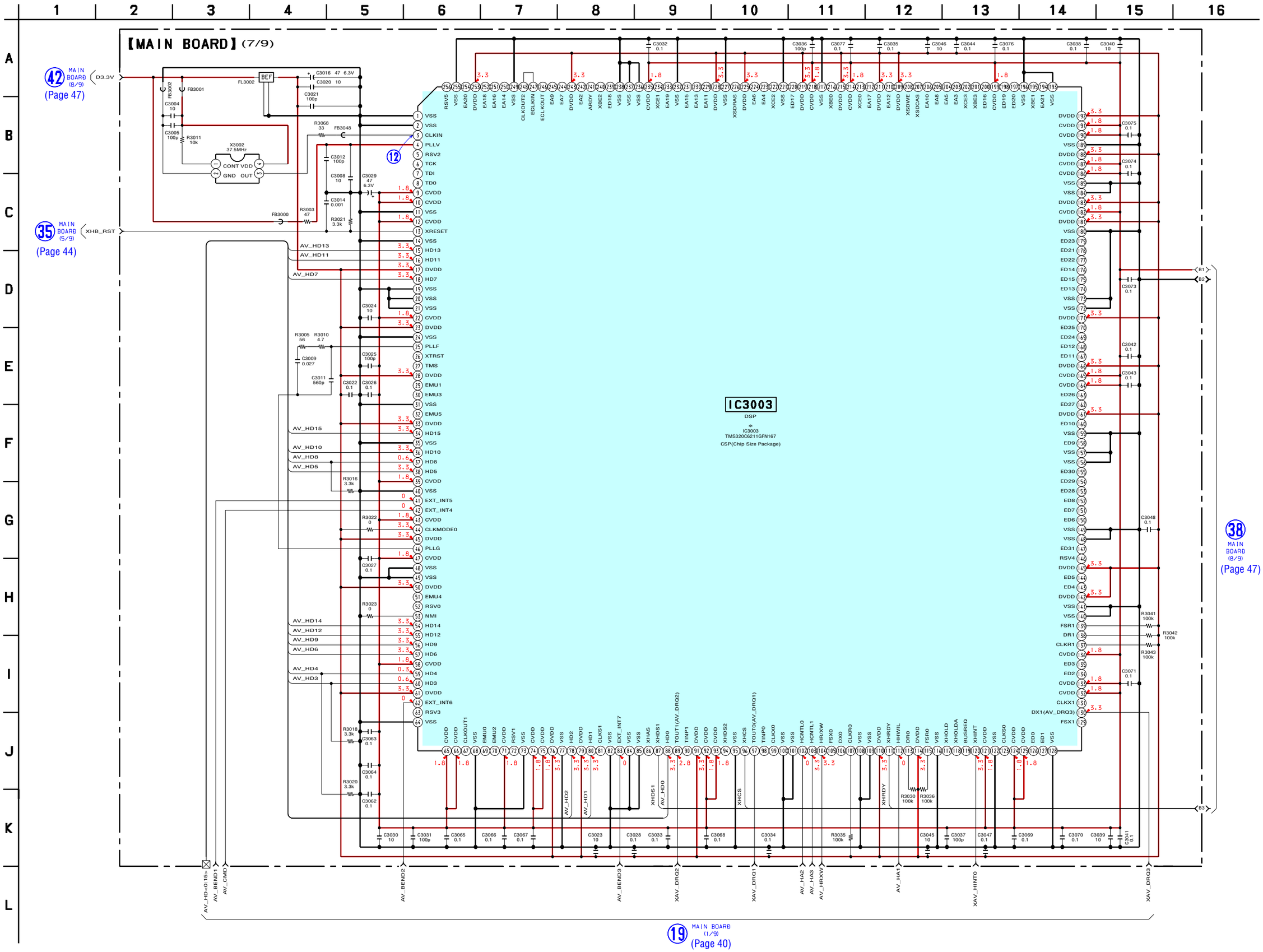
6-17. SCHEMATIC DIAGRAM – MAIN Board (5/9) – • See page 37 for Waveforms.



6-18. SCHEMATIC DIAGRAM – MAIN Board (6/9) – • See page 60 for IC Block Diagrams.

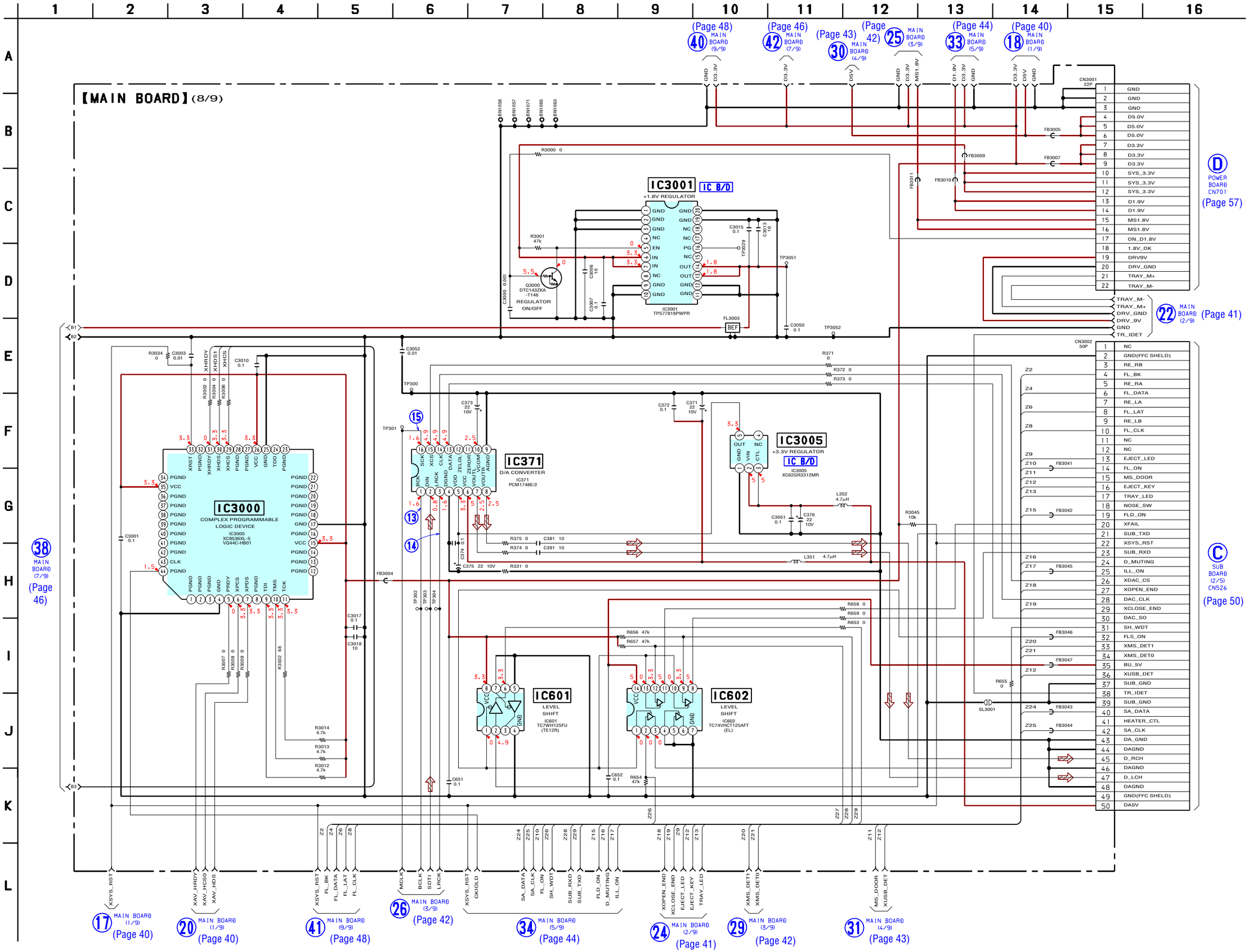

【MAIN BOARD】(6/9)
1 2 3 4 5 6 7 8 9 10 11 12
A B C D E F G H I
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15
37 MAIN BOARD (5/9) (Page 44)
SH_A17
IC1030
MBM29DL640
E-90TN-1HD
SH_A16 SH_A15 SH_A14 SH_A13 SH_A12 SH_A11 SH_A10 SH_A9 SH_A20 SH_A21
R1019 0
SH_A22
R1078 10k
TP1026
SH_A19 SH_A18 SH_A8 SH_A7 SH_A6 SH_A5 SH_A4 SH_A3 SH_A2
A15 A14 A13 A12 A11 A10 A9 A8 A19 A20 XWE XRESET A21 XWP/ACC RY/BY A18 A17 A7 A6 A5 A4 A3 A2 A1
A16 XBYTE VSS DQ15/A-1 DQ7 DQ14 DQ6 DQ13 DQ5 DQ12 DQ4 VCC DQ11 DQ3 DQ10 DQ2 DQ9 DQ1 DQ8 DQ0 XOE VSS XCE A0
SH_D15 SH_D7 SH_D14 SH_D6 SH_D13 SH_D5 SH_D12 SH_D4 SH_D11 SH_D3 SH_D10 SH_D2 SH_D9 SH_D1 SH_D8 SH_D0
IC1030
64Mbit FLASH MEMORY
IC B/D
R1016 0
C1108 10
C1007 0.1
C1037 0.1
SH_A1
C1047 0.01
FB1026
RB1006 22 X4
RB1007 22 X4
SH_D0 SH_D1 SH_D2 SH_D3 SH_D4 SH_D5 SH_D6 SH_D7
IC1020
K4S281632D -TI75
VCC DQ0 VCCQ DQ1 DQ2 VSSQ DQ3 DQ4 VCCQ DQ5 DQ6 VSSQ DQ7 VCC LDQM XWE XCAS XRAS XCS A13 A12 A10 A0 A1 A2 A3 VCC
VSS DQ15 VSSQ DQ14 DQ13 VCCQ DQ12 DQ11 VSSQ DQ10 DQ9 VCCQ DQ8 VSS N.C. UDQM CLK CKE N.C. A11 A9 A8 A7 A6 A5 A4 VSS
SH_A14 SH_A13 SH_A11 SH_A1 SH_A2 SH_A3 SH_A4
SH_A12 SH_A10 SH_A9 SH_A8 SH_A7 SH_A6 SH_A5
IC1020
128Mbit SD-RAM
IC B/D
C1029 0.1
C1031 0.1
RB1009 22 X4
RB1008 22 X4
SH_D15 SH_D14 SH_D13 SH_D12 SH_D11 SH_D10 SH_D9 SH_D8
R1020 0
C1013 0.1
C1034 0.1
C1035 0.1
C1032 0.1
C1033 0.1
C1101 47 6.3V
BEF
FL1002

6-19. SCHEMATIC DIAGRAM – MAIN Board (7/9) – • See page 37 for Waveform.

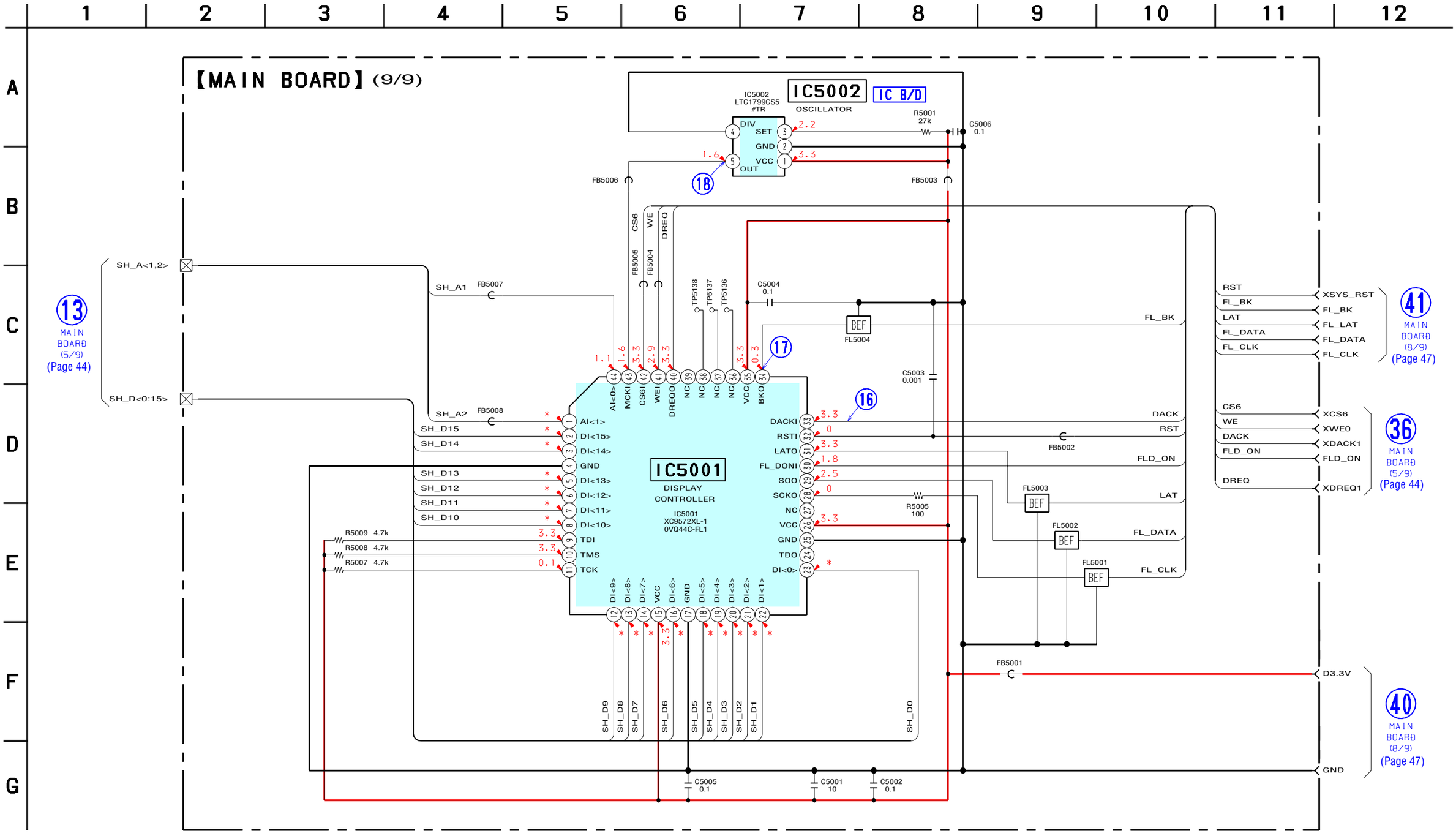


6-20. SCHEMATIC DIAGRAM – MAIN Board (8/9) –

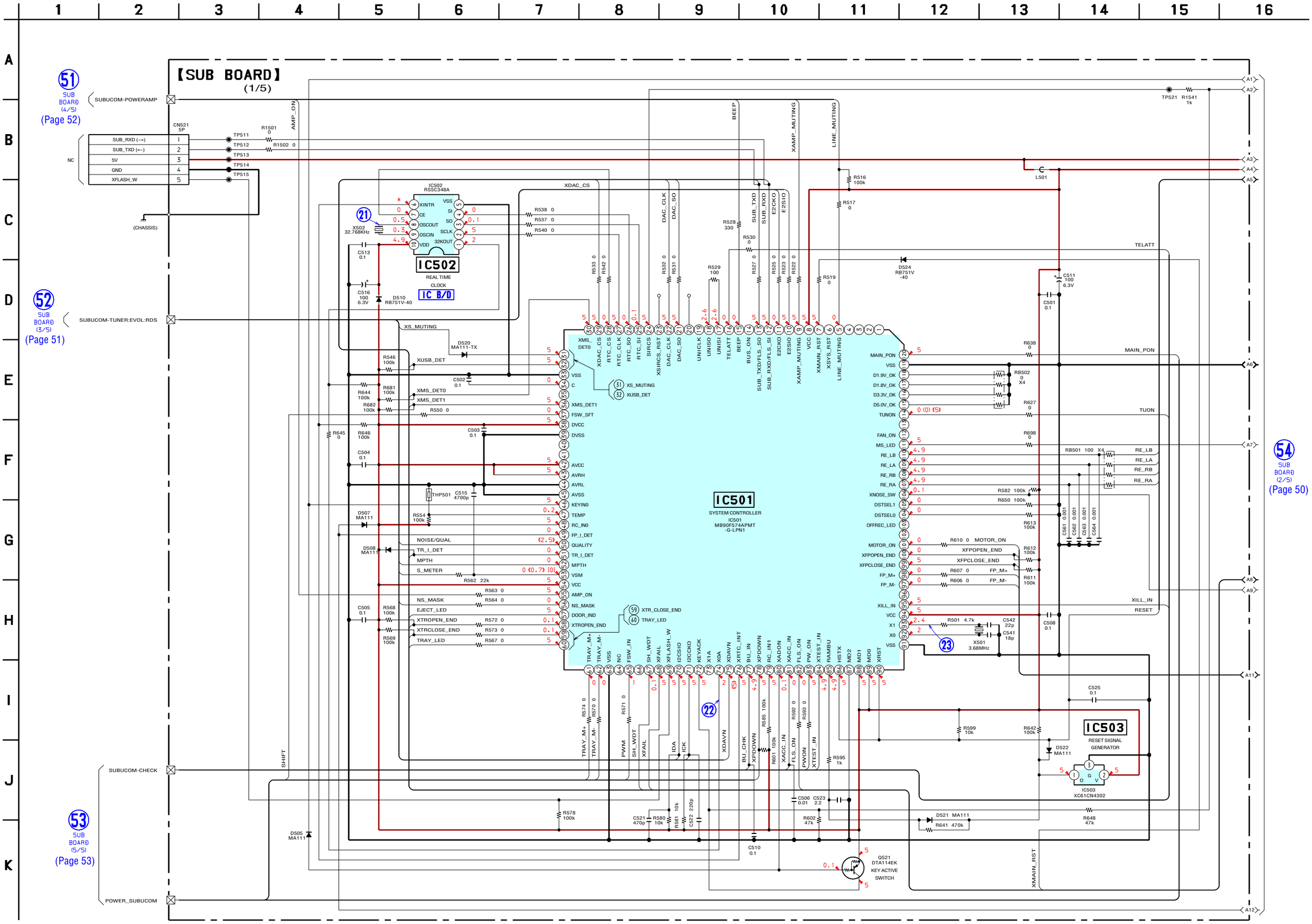
• See page 37 for Waveforms. • See page 60 for IC Block Diagrams.



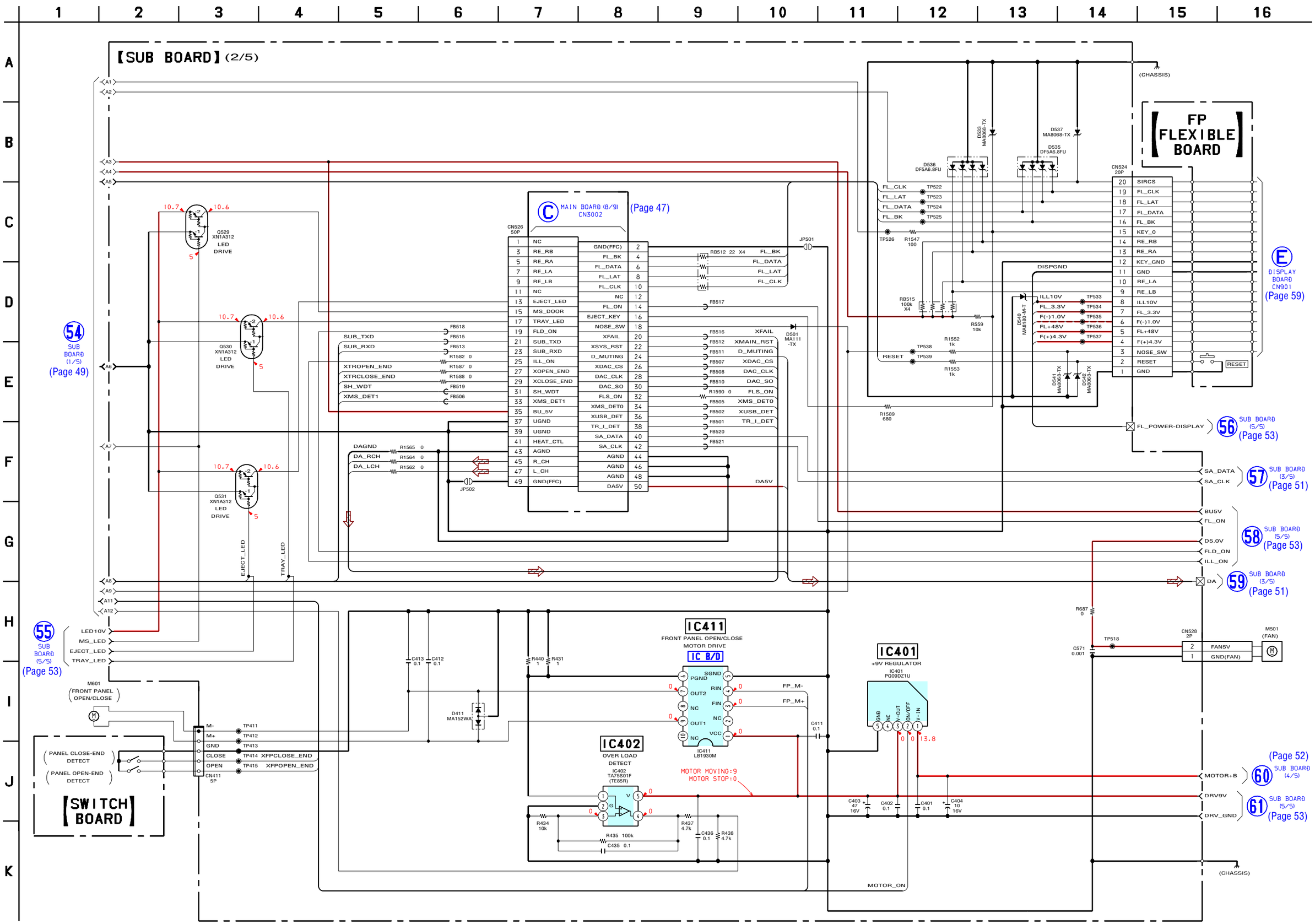
6-21. SCHEMATIC DIAGRAM – MAIN Board (9/9) – • See page 37 for Waveforms. • See page 60 for IC Block Diagram.



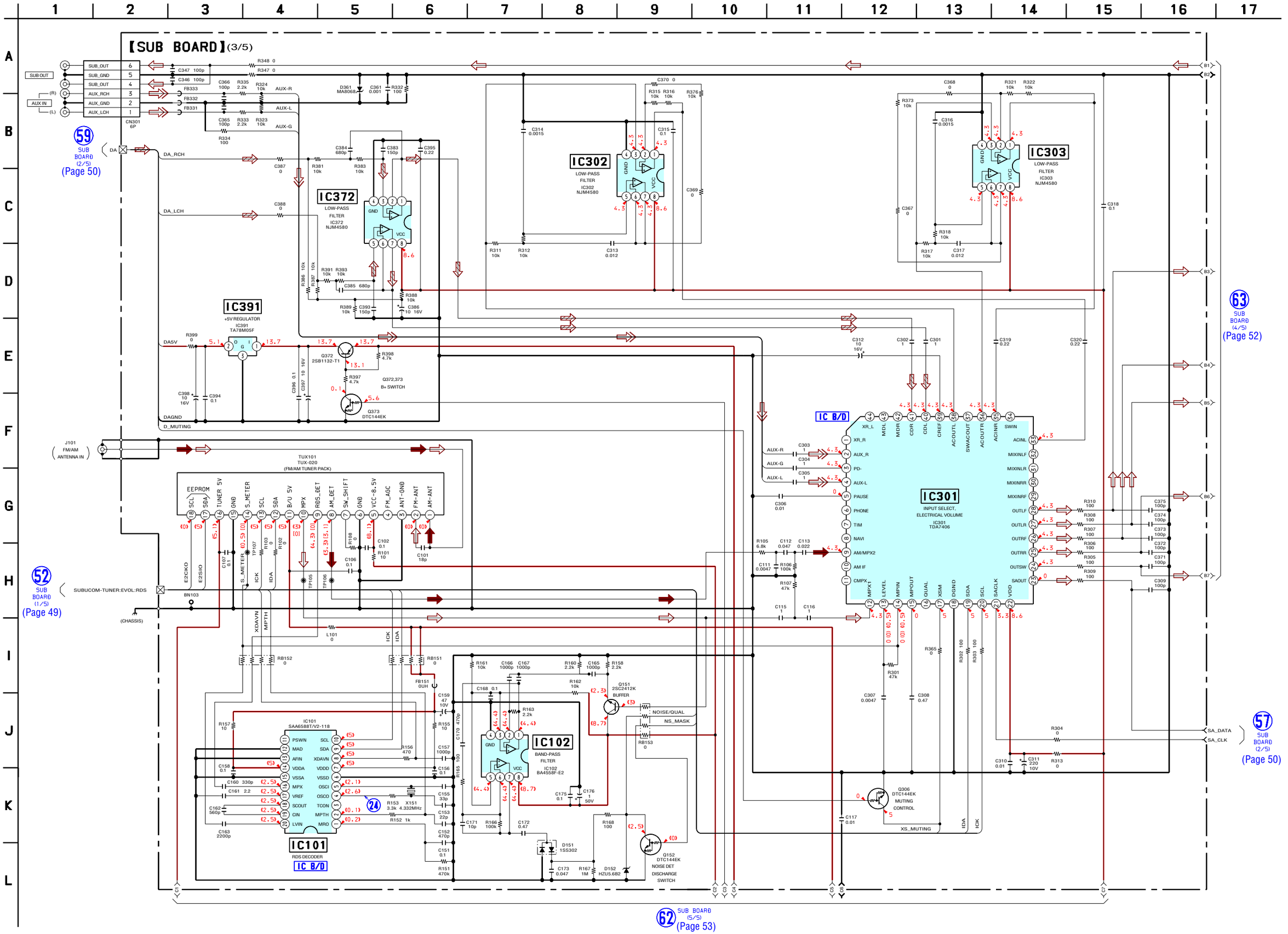
6-22. SCHEMATIC DIAGRAM – SUB Board (1/5) – • See page 37 for Waveforms. • See page 60 for IC Block Diagram.



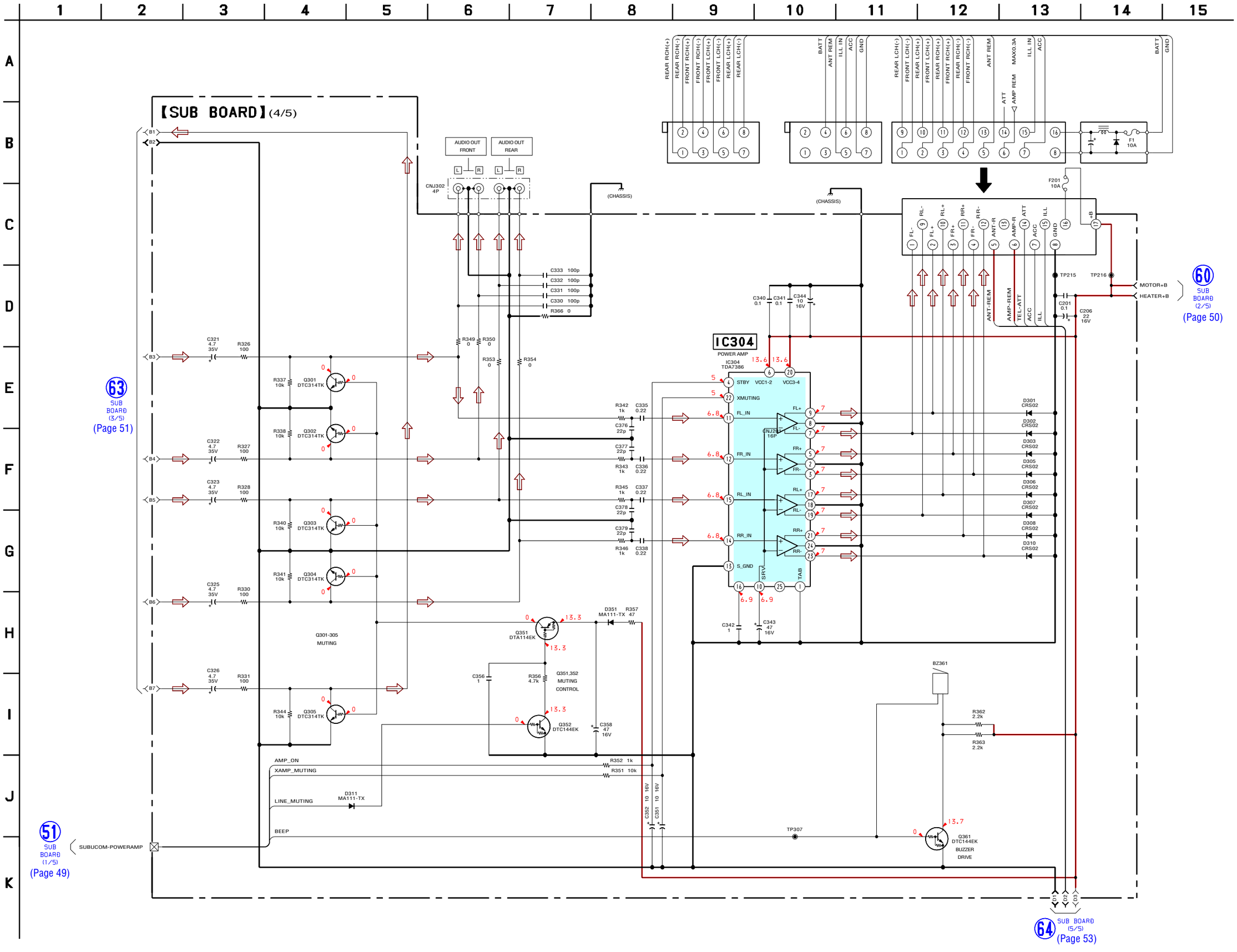
6-23. SCHEMATIC DIAGRAM – SUB (2/5)/SWITCH Boards – • See page 60 for IC Block Diagram.



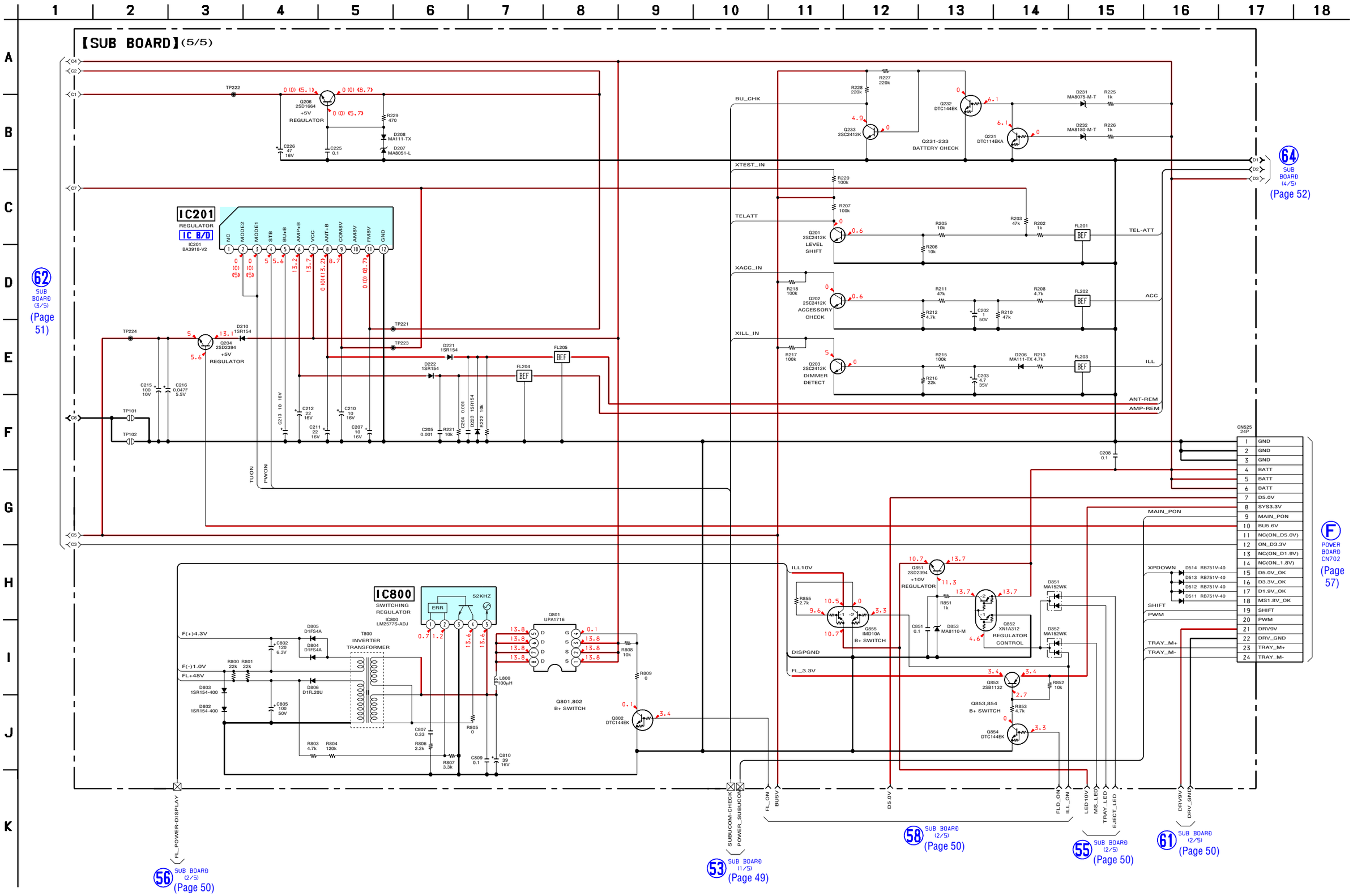
6-24. SCHEMATIC DIAGRAM – SUB Board (3/5) – • See page 60 for IC Block Diagram.



6-25. SCHEMATIC DIAGRAM – SUB Board (4/5) –

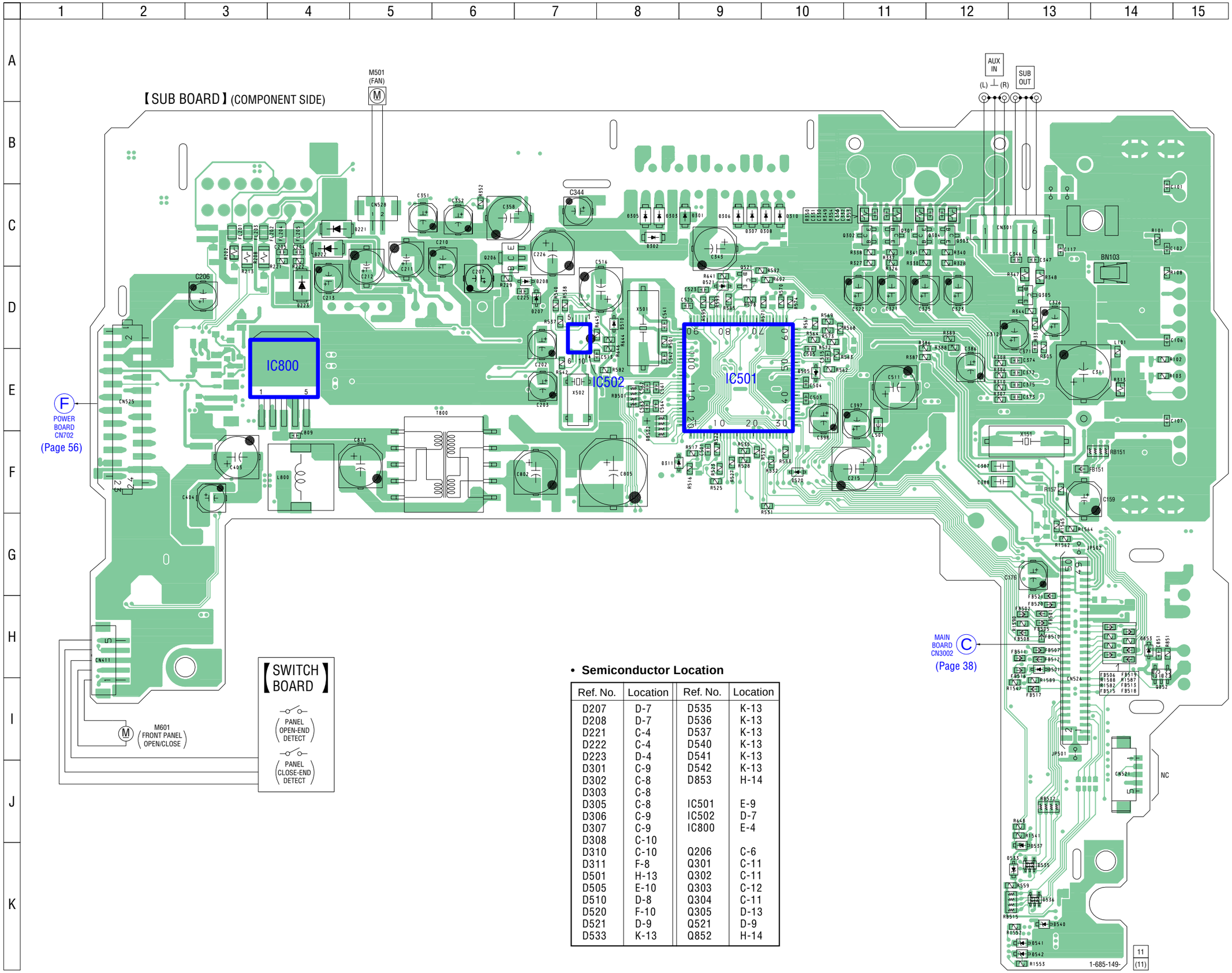


6-26. SCHEMATIC DIAGRAM – SUB Board (5/5) – • See page 60 for IC Block Diagram.



6-27. PRINTED WIRING BOARDS – SUB (Component Side)/SWITCH Boards –

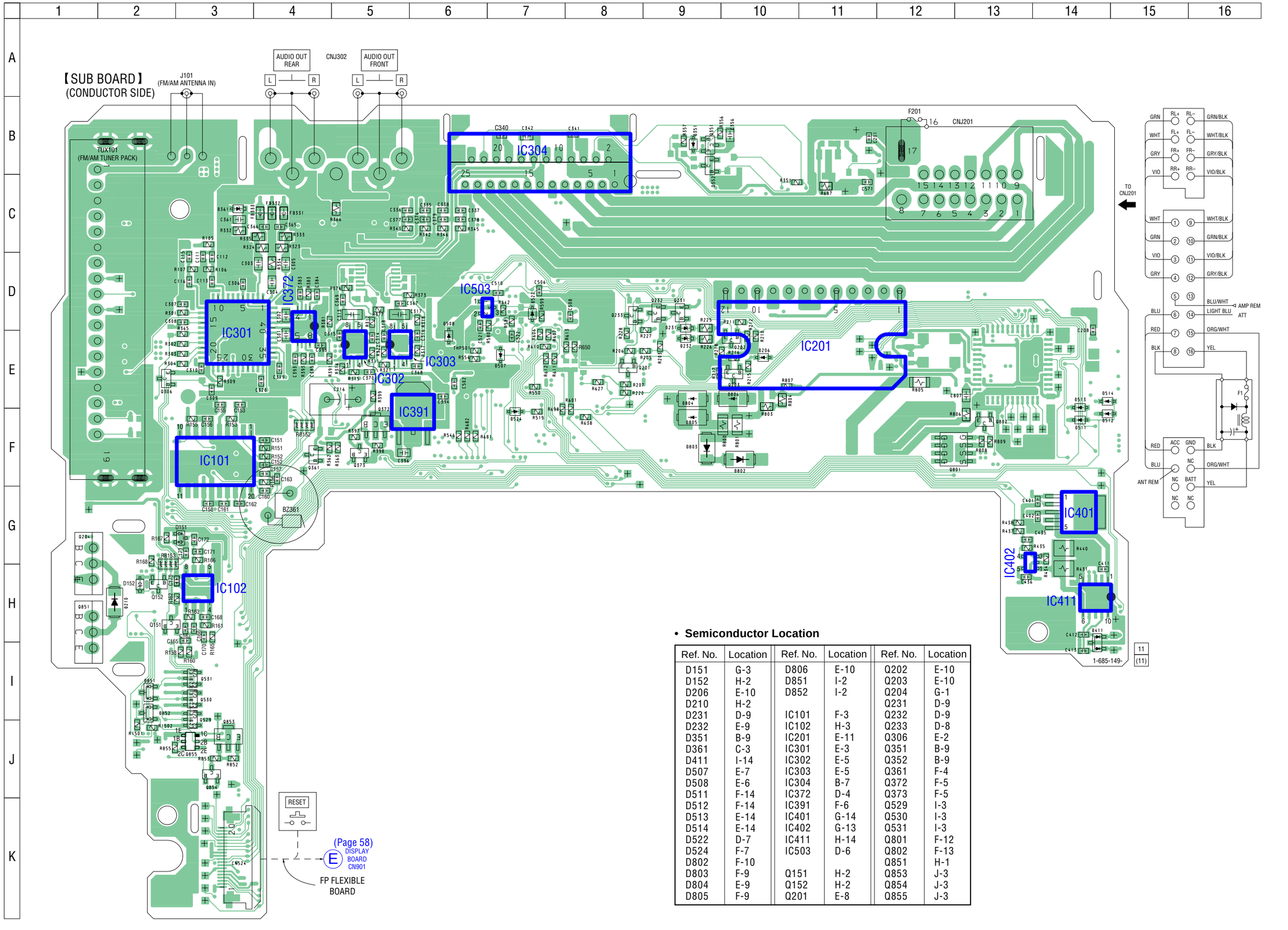
• See page 37 for Circuit Boards Location.



• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D207	D-7	D535	K-13
D208	D-7	D536	K-13
D221	C-4	D537	K-13
D222	C-4	D540	K-13
D223	D-4	D541	K-13
D301	C-9	D542	K-13
D302	C-8	D853	H-14
D303	C-8		
D305	C-8	IC501	E-9
D306	C-9	IC502	D-7
D307	C-9	IC800	E-4
D308	C-10		
D310	C-10	Q206	C-6
D311	F-8	Q301	C-11
D501	H-13	Q302	C-11
D505	E-10	Q303	C-12
D510	D-8	Q304	C-11
D520	F-10	Q305	D-13
D521	D-9	Q521	D-9
D533	K-13	Q852	H-14

6-28. PRINTED WIRING BOARD – SUB Board (Conductor Side) – • See page 37 for Circuit Boards Location.



- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D151	G-3	D806	E-10	Q202	E-10
D152	H-2	D851	I-2	Q203	E-10
D206	E-10	D852	I-2	Q204	G-1
D210	H-2			Q231	D-9
D231	D-9	IC101	F-3	Q232	D-9
D232	E-9	IC102	H-3	Q233	D-8
D351	B-9	IC201	E-11	Q306	E-2
D361	C-3	IC301	E-3	Q351	B-9
D411	I-14	IC302	E-5	Q352	B-9
D507	E-7	IC303	E-5	Q361	F-4
D508	E-6	IC304	B-7	Q372	F-5
D511	F-14	IC372	D-4	Q373	F-5
D512	F-14	IC391	F-6	Q529	I-3
D513	E-14	IC401	G-14	Q530	I-3
D514	E-14	IC402	G-13	Q531	I-3
D522	D-7	IC411	H-14	Q801	F-12
D524	F-7	IC503	D-6	Q802	F-13
D802	F-10			Q851	H-1
D803	F-9	Q151	H-2	Q853	J-3
D804	E-9	Q152	H-2	Q854	J-3
D805	F-9	Q201	E-8	Q855	J-3

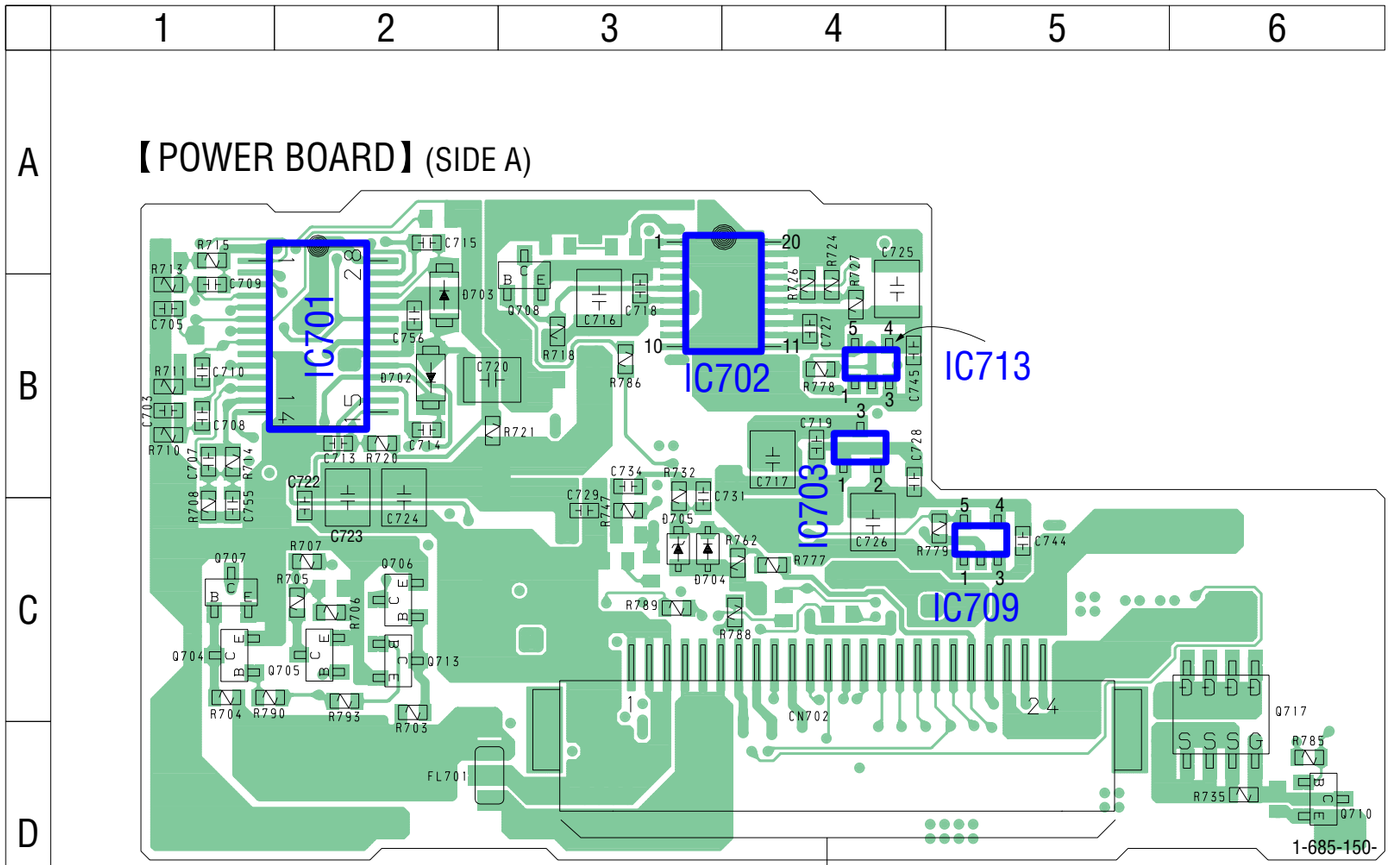
6-29. PRINTED WIRING BOARD – POWER Board –

• See page 37 for Circuit Boards Location.

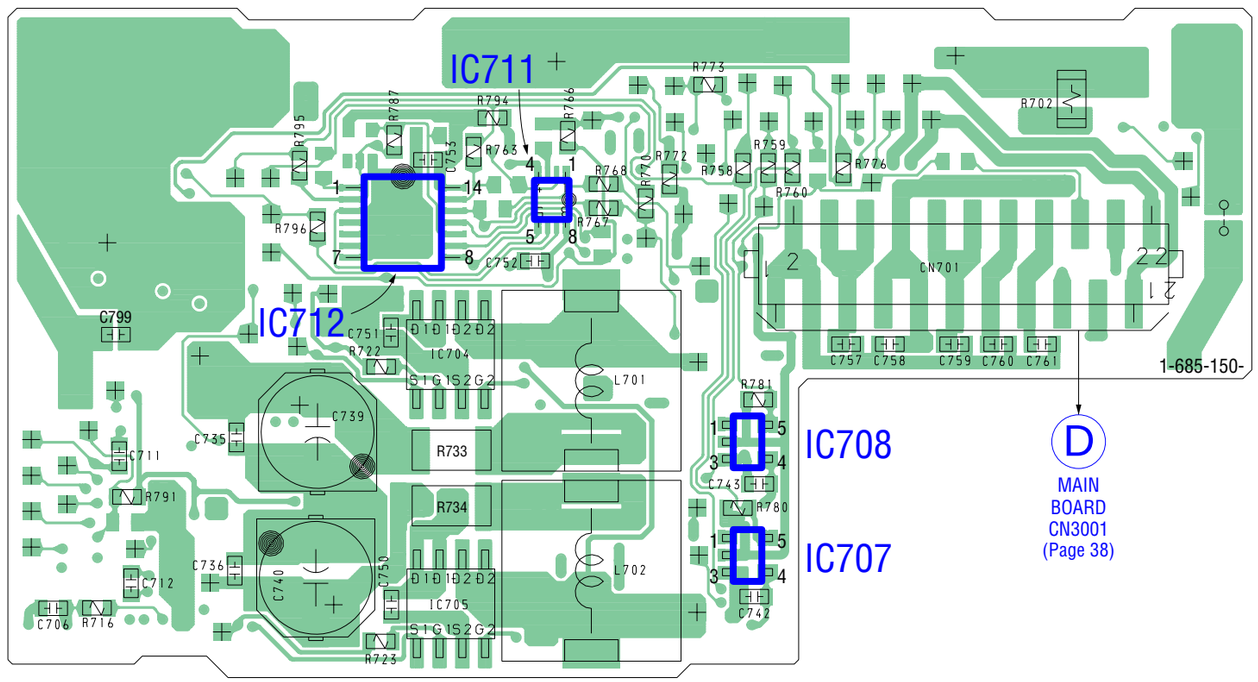
• **Semiconductor Location**

Ref. No.	Location
D702	B-2
D703	B-2
D704	C-3
D705	C-3
IC701	B-2
IC702	B-4
IC703	B-4
IC704	F-3
IC705	G-3
IC707	G-4
IC708	G-4
IC709	C-5
IC711	F-3
IC712	F-3
IC713	B-4
Q704	C-1
Q705	C-2
Q706	C-2
Q707	C-1
Q708	B-3
Q710	D-6
Q713	C-2
Q717	C-6

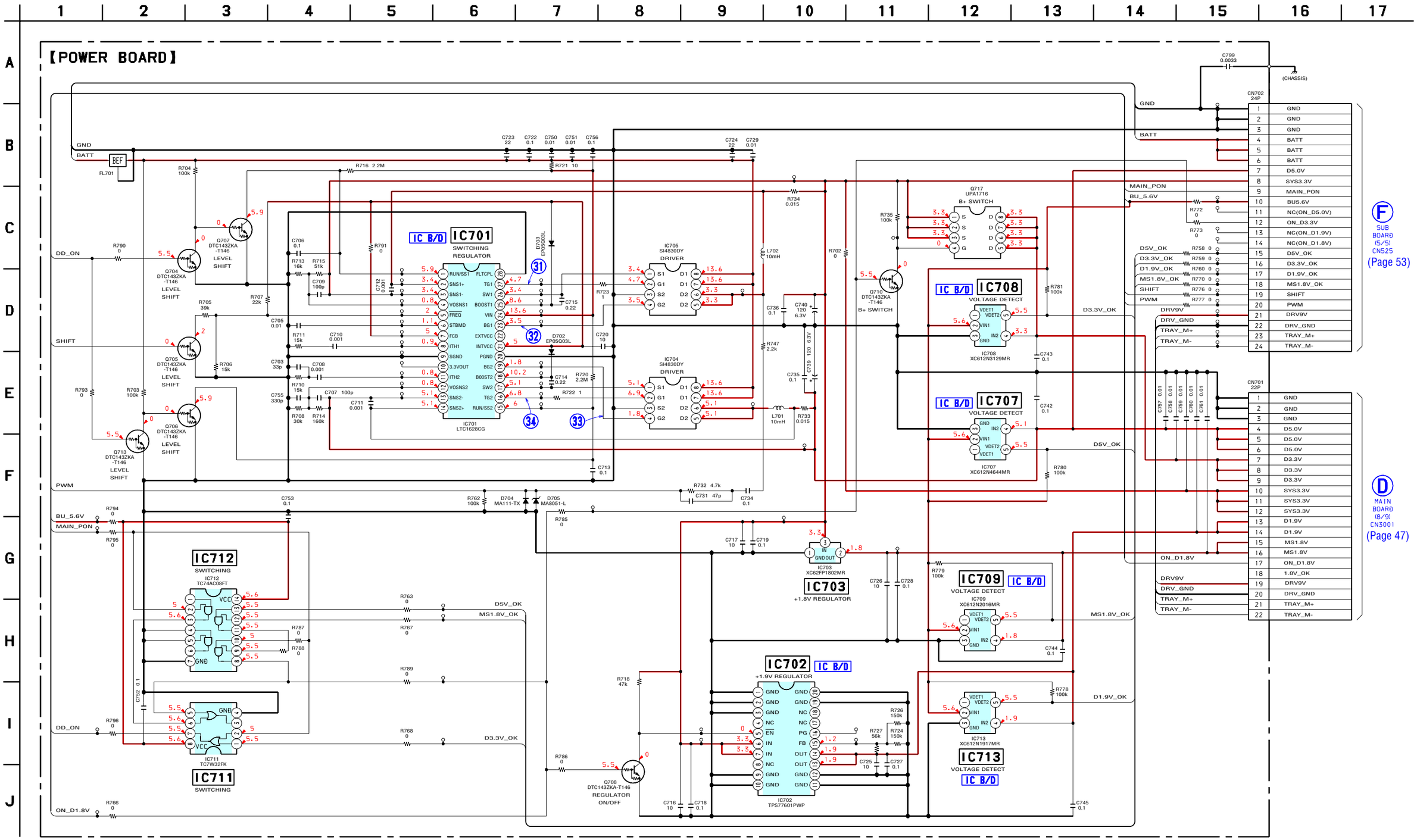
【POWER BOARD】(SIDE A)



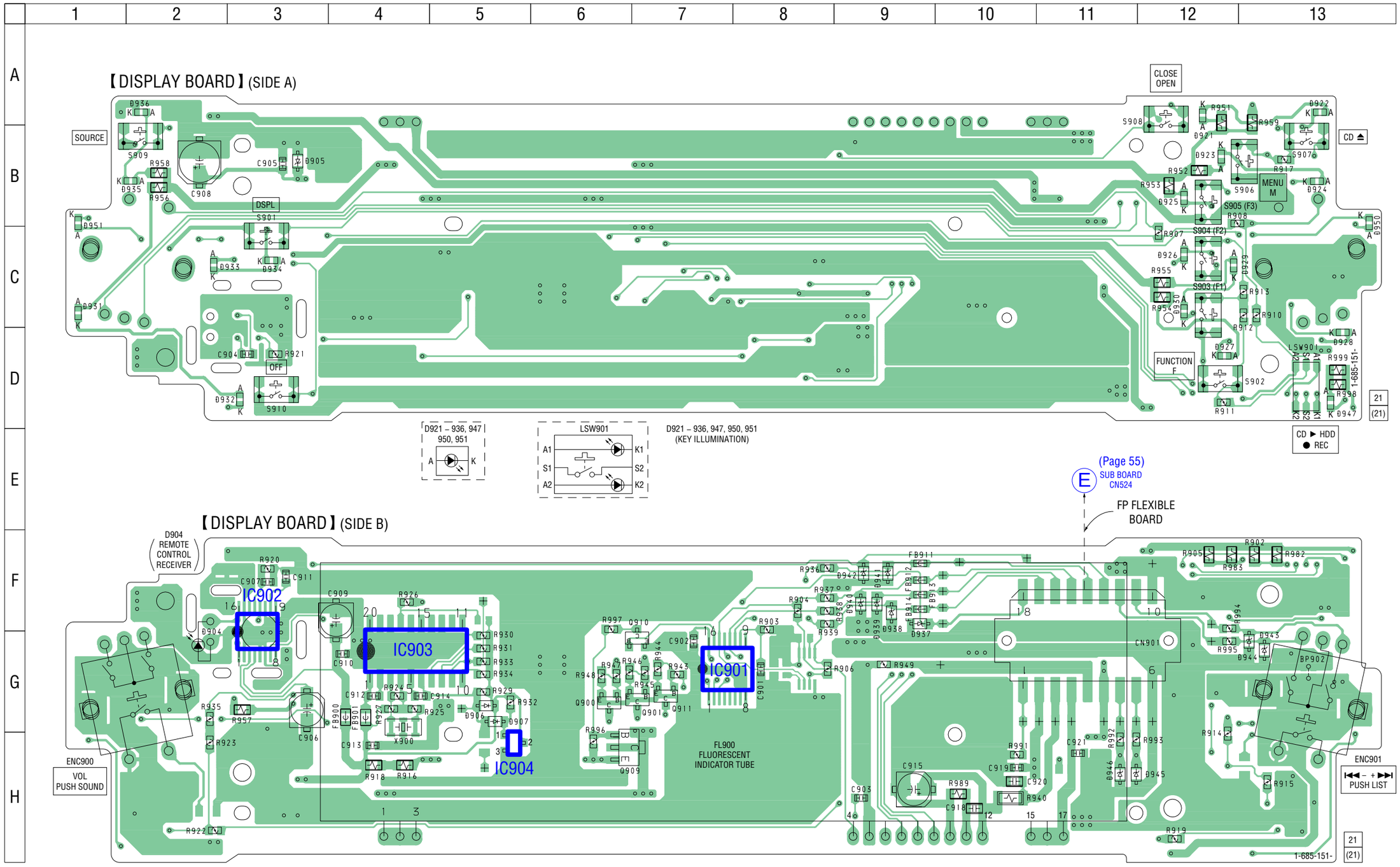
【POWER BOARD】(SIDE B)



6-30. SCHEMATIC DIAGRAM – POWER Board – • See page 37 for Waveforms. • See page 60 for IC Block Diagrams.



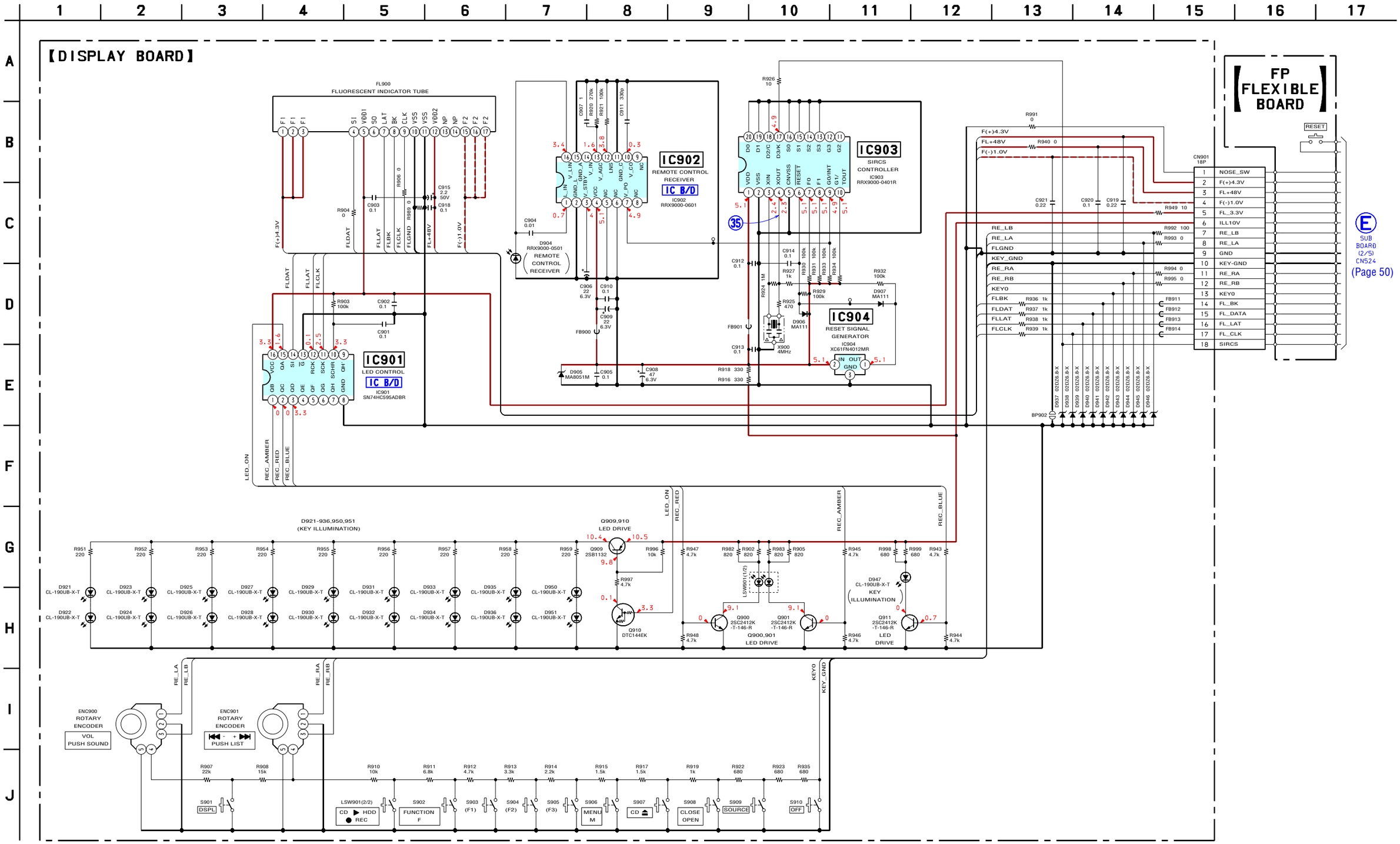
6-31. PRINTED WIRING BOARD – DISPLAY Board – • See page 37 for Circuit Boards Location.



- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D904	G-2	D928	D-13	D939	F-9	IC901	G-7
D905	B-3	D929	C-12	D940	F-9	IC902	F-3
D906	G-5	D930	C-12	D941	F-9	IC903	G-4
D907	G-5	D931	C-1	D942	F-9	IC904	H-5
D921	A-12	D932	D-3	D943	G-13		
D922	A-13	D933	C-2	D944	G-13	Q900	G-6
D923	B-12	D934	C-3	D945	H-11	Q901	G-7
D924	B-13	D935	B-2	D946	H-11	Q909	H-6
D925	B-12	D936	A-2	D947	D-13	Q910	G-7
D926	C-12	D937	F-9	D950	B-13	Q911	G-7
D927	D-12	D938	F-9	D951	B-1		

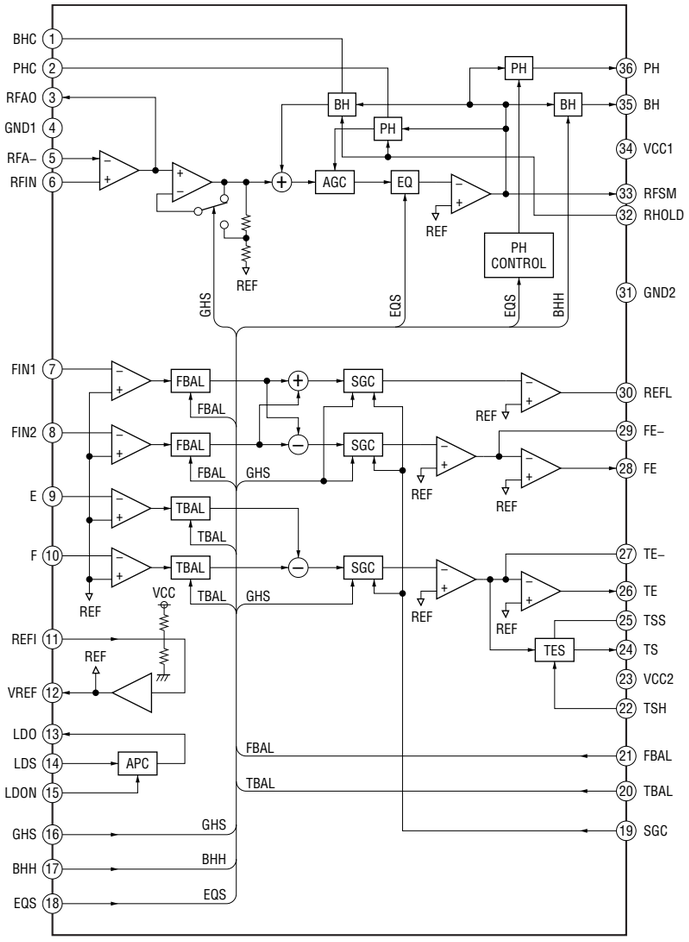
6-32. SCHEMATIC DIAGRAM – DISPLAY Board – • See page 37 for Waveform. • See page 52 for IC Block Diagrams.



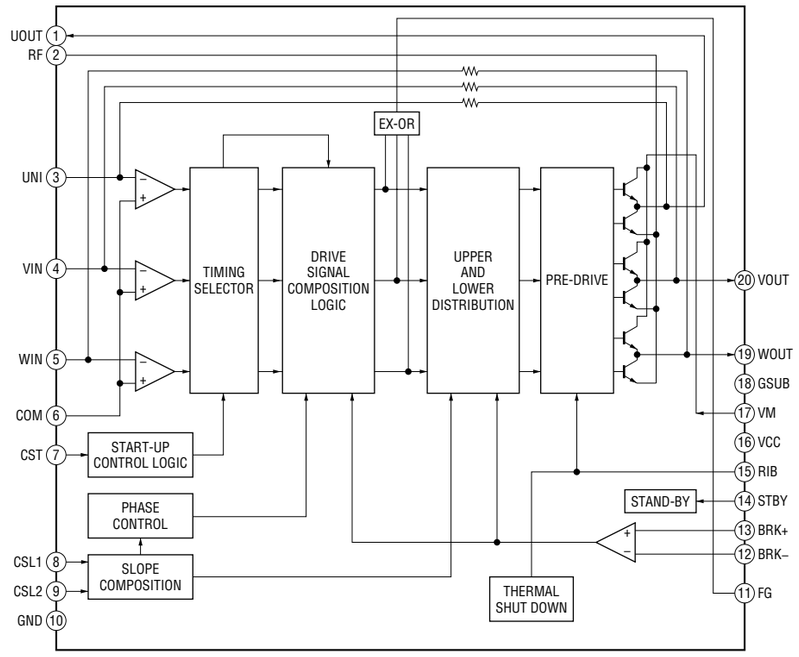
- **IC Block Diagrams**

– SERVO Board –

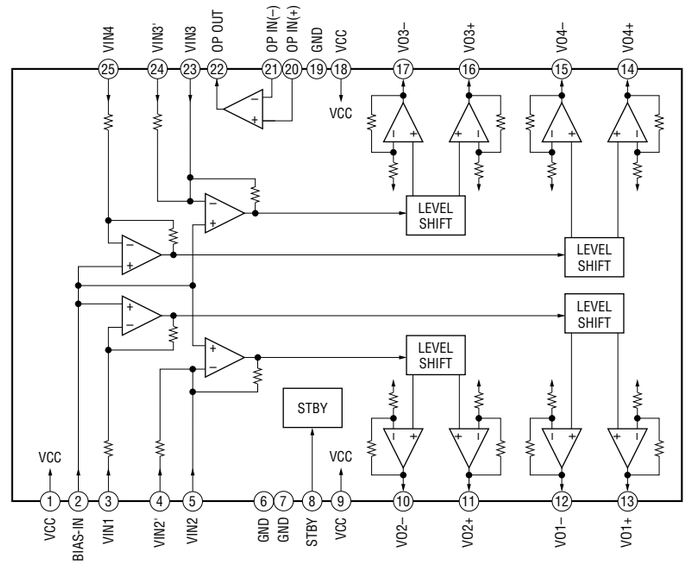
IC1 LA9246T-TLM



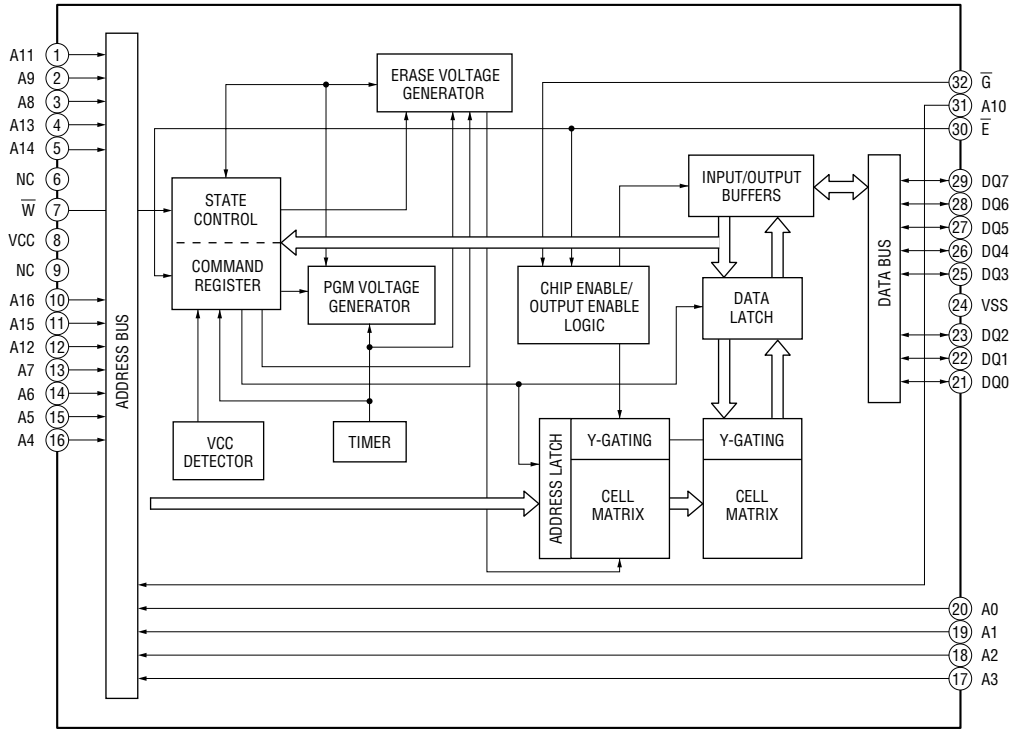
IC5 BD6609FV



IC6 BA5918FP-Y

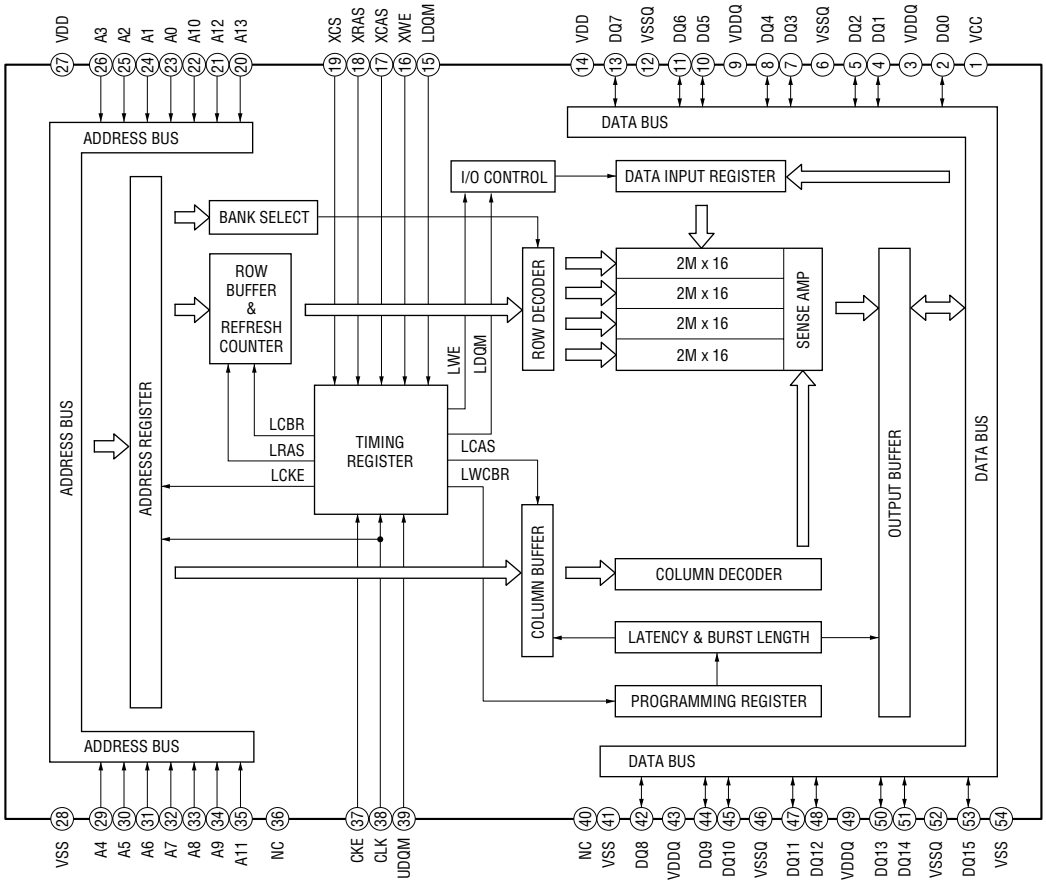


IC9 NX29F010-70T-550D02

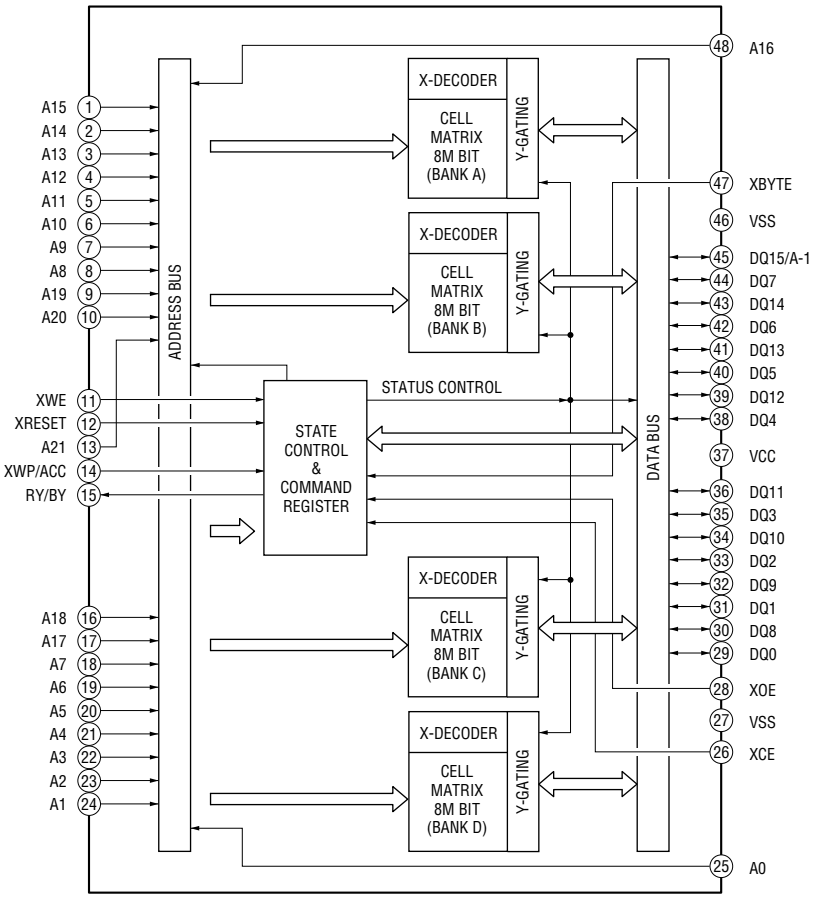


– MAIN Board –

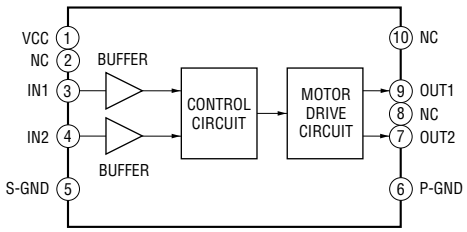
IC1020 K4S281632D-TI75



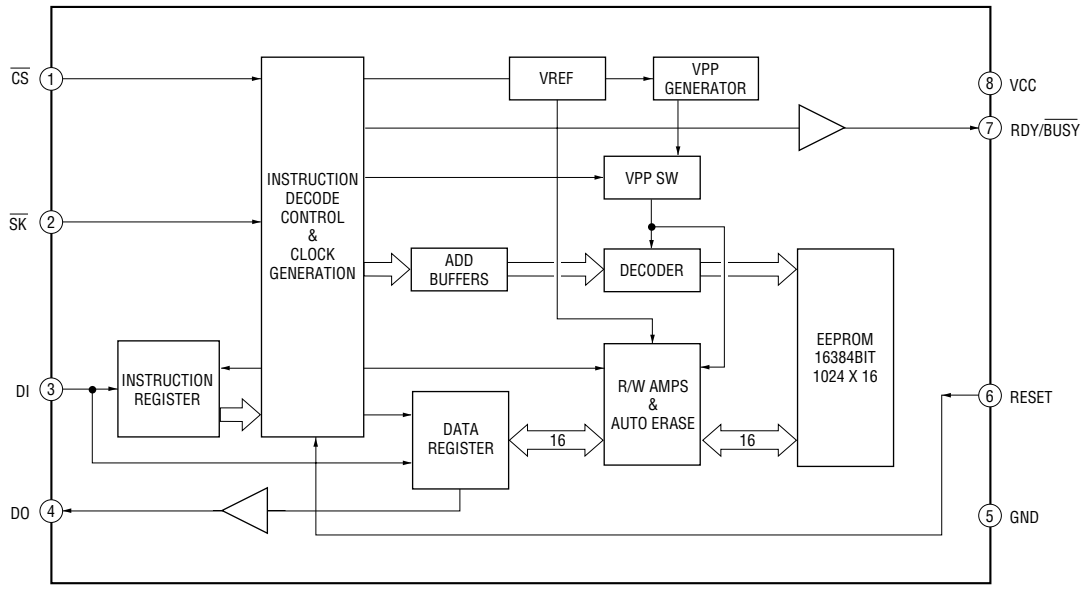
IC1030 MBM29DL640E-90TN-1HDU



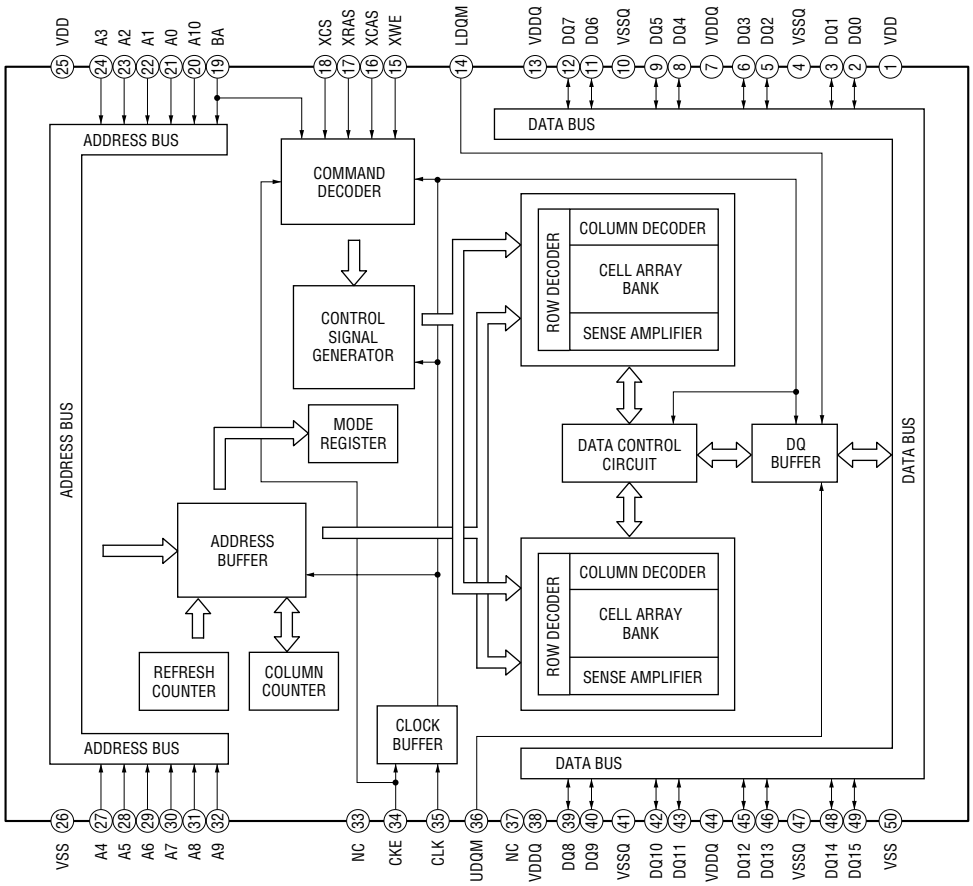
IC411 LB1930M-TLM



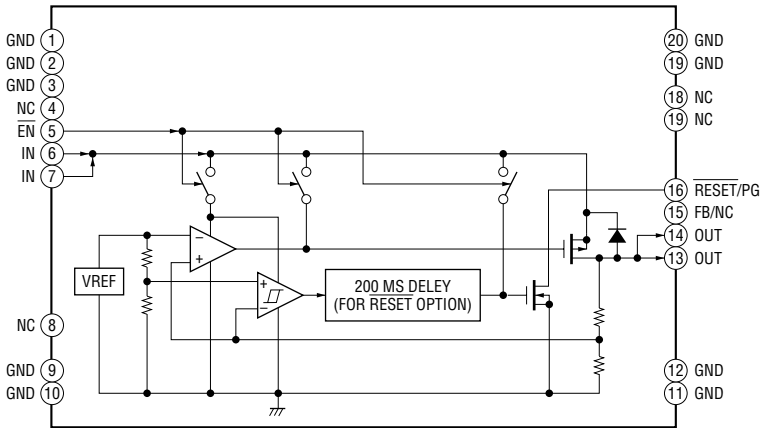
IC4002 CXK2000EN-T2



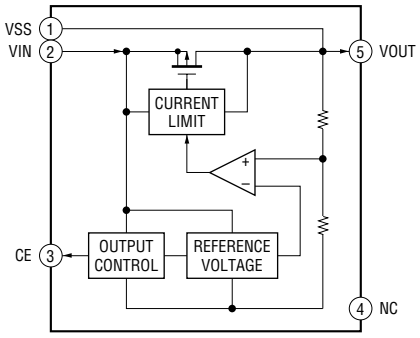
IC2001 W981616BH-7-EL10


VDD A3 A2 A1 A0 A10 BA XCS XRAS XCAS XWE LDQM VDDQ DQ7 DQ6 VSSQ DQ5 DQ4 VDDQ DQ3 DQ2 VSSQ DQ1 DQ0 VDD
25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
ADDRESS BUS
DATA BUS
COMMAND DECODER
CONTROL SIGNAL GENERATOR
MODE REGISTER
ADDRESS BUFFER
REFRESH COUNTER
COLUMN COUNTER
CLOCK BUFFER
ROW DECODER
COLUMN DECODER
CELL ARRAY BANK
SENSE AMPLIFIER
DATA CONTROL CIRCUIT
DQ BUFFER
VSS A4 A5 A6 A7 A8 A9 NC CKE CLK UDQM NC VDDQ DQ8 DQ9 VSSQ DQ10 DQ11 VDDQ DQ12 DQ13 VSSQ DQ14 DQ15 VSS
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

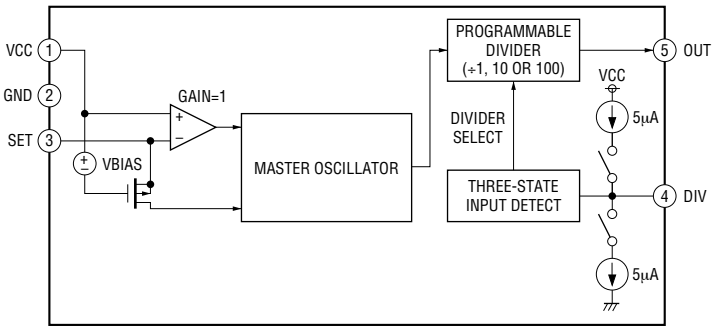
IC3001 TPS77818PWPR



IC3005 XC62GR3312MR

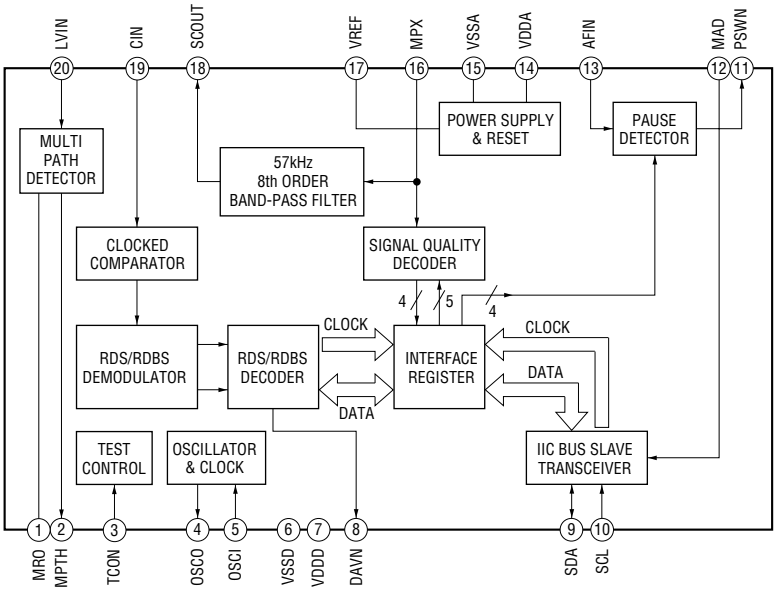


IC5002 LTC1799CS5#TR

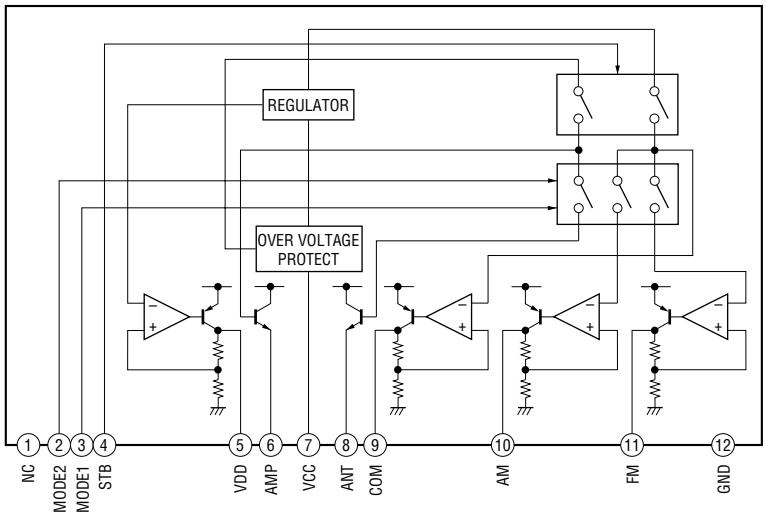


– SUB Board –

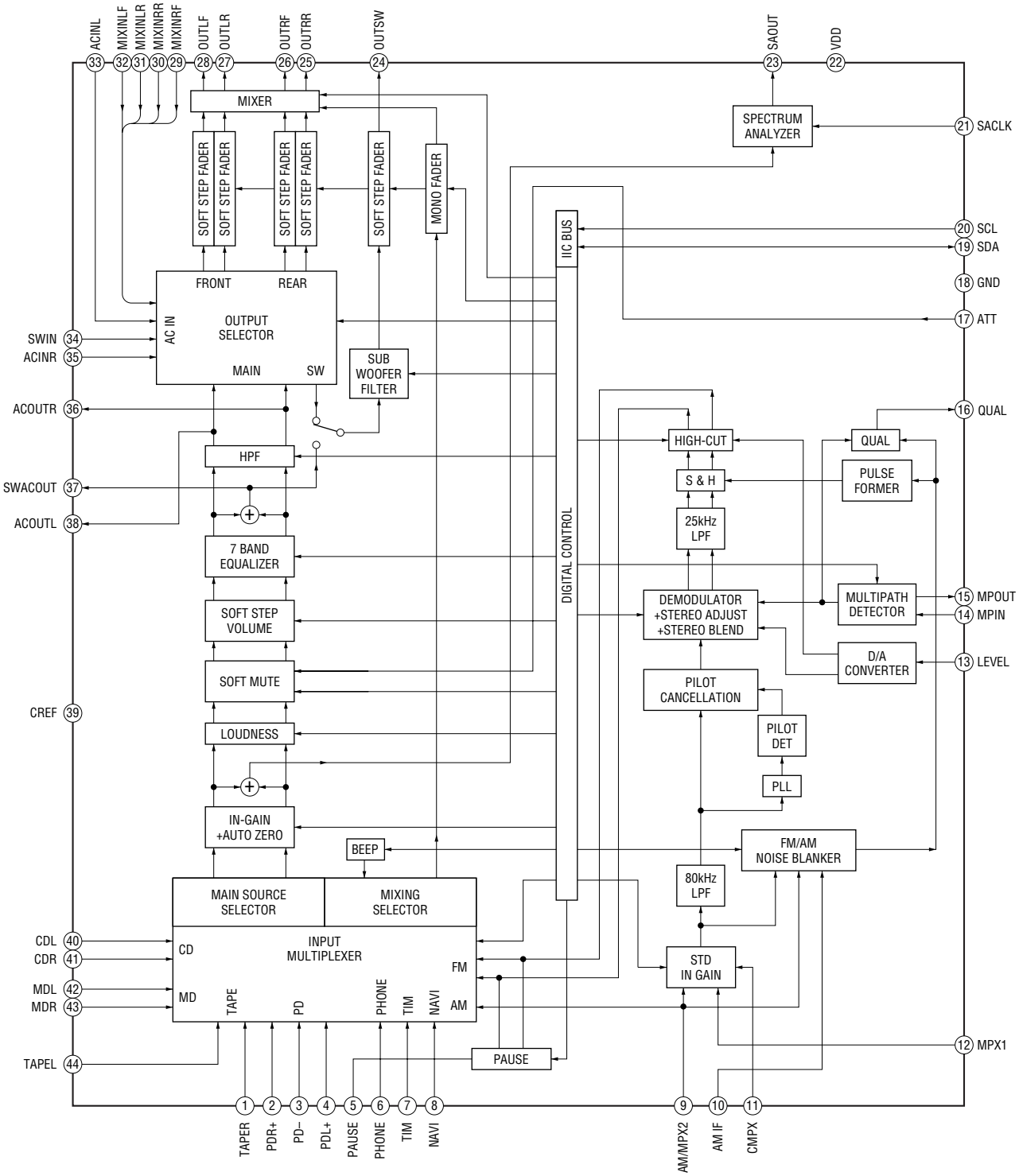
IC101 SAA6588T/V2-118



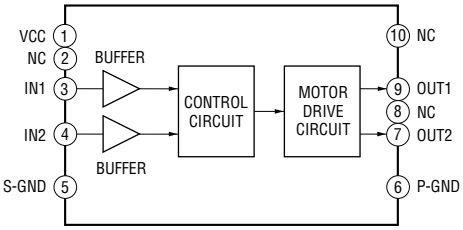
IC201 BA3918-V2



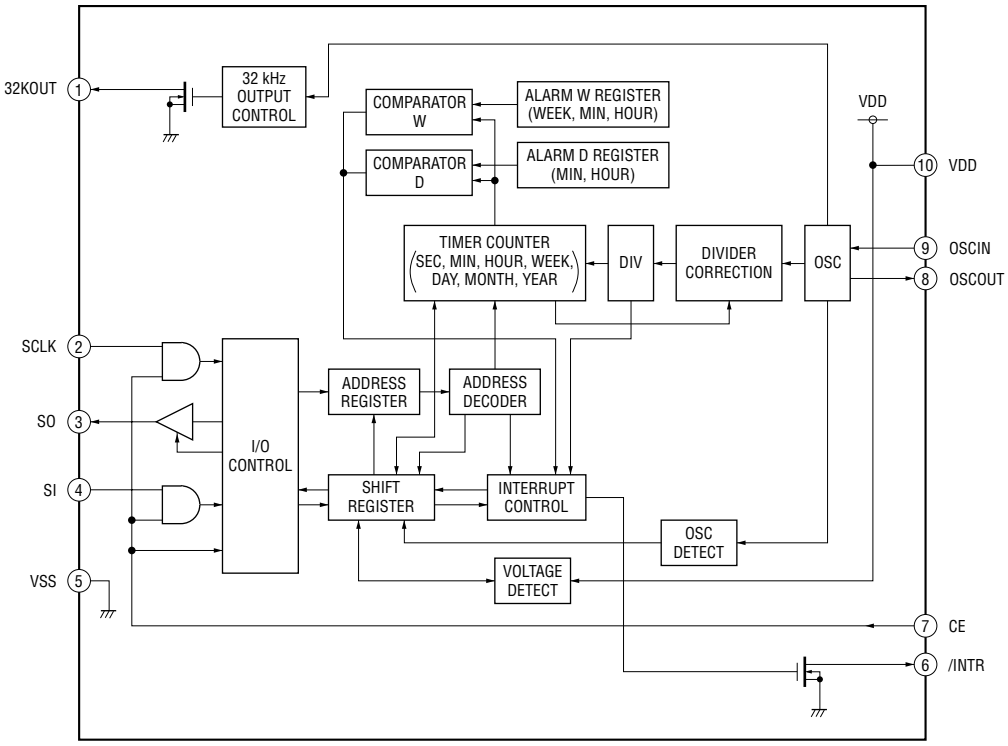
IC301 TDA7406



IC411 LB1930M-TLM

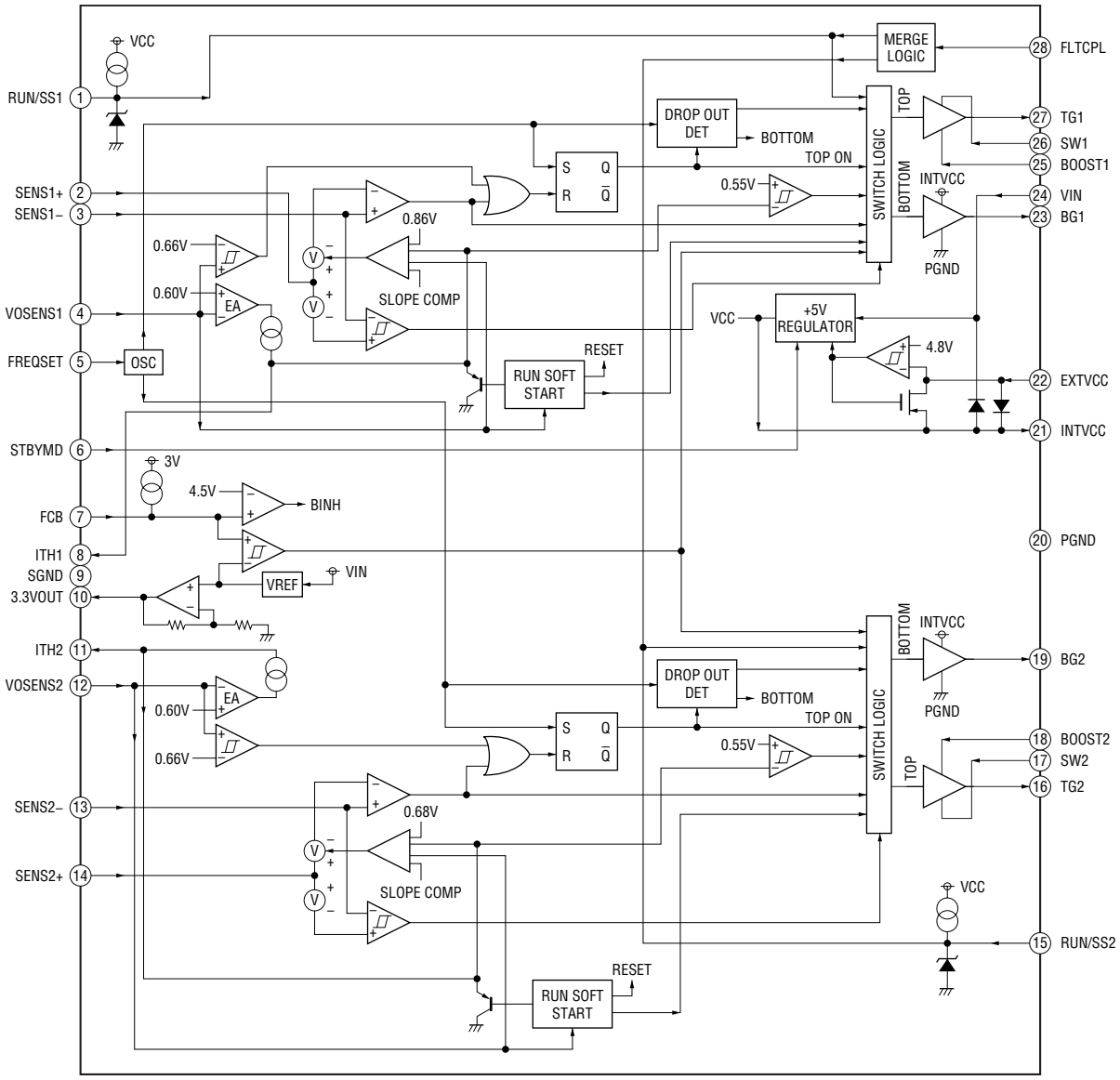


IC502 RS5C348A-E2

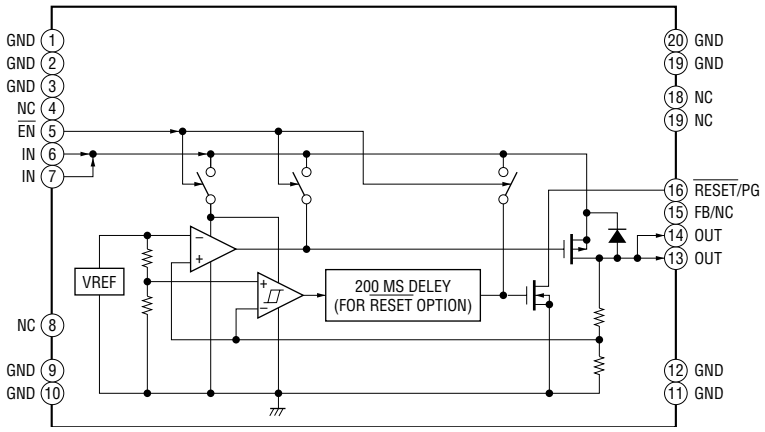


– POWER Board –

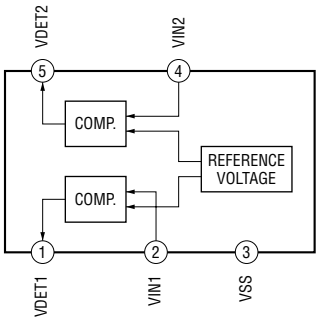
IC701 LTC1628CG#TR



IC702 TPS77601PWPR

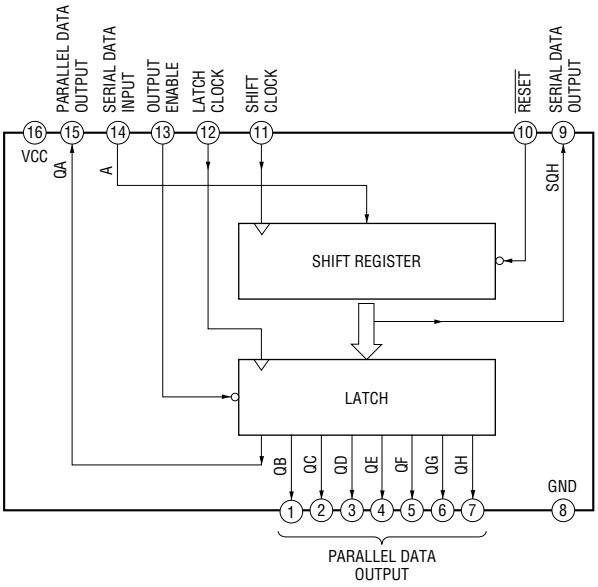


IC707 XC612N4644MR
IC708 XC612N3129MR
IC709 XC612N2016MR
IC713 XC612N1917MR

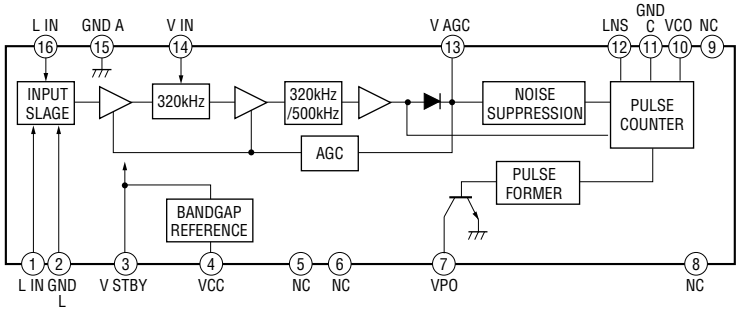


– DISPLAY Board –

IC901 SN74HC595ADBR



IC902 RRX900-0601#1



6-33. IC PIN FUNCTION DESCRIPTION

• SERVO BOARD IC8 LC895300 (ATAPI, DSP, CD-ROM DECODER)

Pin No.	Pin Name	I/O	Description
1	VSS	—	Ground terminal
2 to 4	A11, A9, A8	O	Address signal output to the flash memory
5, 6	A13, A14	O	Address signal output to the flash memory
7	WSTROBE	O	Write strobe signal output to the flash memory
8 to 10	A16, A15, A12	O	Address signal output to the flash memory
11 to18	A7 to A0	O	Address signal output to the flash memory
19, 20	DATA0, DATA1	I/O	Two-way data bus with the flash memory
21	VDDD	—	Power supply terminal (+5V)
22	VDD1	—	Power supply terminal (+3.3V)
23	VSS	—	Ground terminal
24	VSSD	—	Ground terminal
25 to 30	DATA2 to DATA7	I/O	Two-way data bus with the flash memory
31	ZCE	O	Chip enable signal output to the flash memory
32	A10	O	Address signal output to the flash memory
33	PSEN	O	Ready signal output to the flash memory
34	IOPORT0	I/O	Not used
35	IOPORT1	I	Tray close-end signal input
36	IOPORT2	I/O	Not used
37	TEST0	I	For test terminal (normally: fixed at “L”)
38	WRQ/HFLO/DIR /TLOCK	O	Monitor output terminal Not used
39	FSEQ/DEF	O	Frame detection signal output or defect signal output terminal Not used
40	DOUT/TESO	O	Digital audio signal output or TES signal output terminal Not used
41	VDD0	—	Power supply terminal (+5V)
42	VSS	—	Ground terminal
43	PLL1	O	PLL clock signal output terminal Not used
44	PLL1VDD	—	Power supply terminal (+3.3V)
45	PLL1VSS	—	Ground terminal
46	CSEL	I	Not used
47	ZHRST	I	Not used
48	ZDASP	I/O	Not used
49, 50	ZCS3FX, ZCS1FX	I	ATAPI bus chip select signal input from the CPU/ATA interface IC
51	VSS1	—	Ground terminal
52	VDD0	—	Power supply terminal (+5V)
53, 54	DA2, DA0	I	ATAPI bus address signal input from the CPU/ATA interface IC
55	ZPDIAG	I/O	Not used
56	DA1	I	ATAPI bus address signal input from the CPU/ATA interface IC
57	ZIOCS16	O	Chip select signal output terminal Not used
58	VSS1	—	Ground terminal
59	HINTRQ	O	Interrupt request signal output to the CPU/ATA interface IC
60	ZDMACK	I	ATAPI bus DMA acknowledge signal input from the CPU/ATA interface IC
61	IORDY	O	ATAPI bus ready signal output to the CPU/ATA interface IC
62	ZDIOR	I	ATAPI bus IOR signal input from the CPU/ATA interface IC
63	ZDIOW	I	ATAPI bus IOW signal input from the CPU/ATA interface IC
64	DMARQ	O	ATAPI bus DMA request signal output to the CPU/ATA interface IC

Pin No.	Pin Name	I/O	Description
65	VDD0	—	Power supply terminal (+5V)
66	VDD1	—	Power supply terminal (+3.3V)
67	VSS1	—	Ground terminal
68, 69	DD15, DD0	I/O	ATAPI two-way data bus with the CPU/ATA interface IC
70, 71	DD14, DD1	I/O	ATAPI two-way data bus with the CPU/ATA interface IC
72, 73	DD13, DD2	I/O	ATAPI two-way data bus with the CPU/ATA interface IC
74, 75	DD12, DD3	I/O	ATAPI two-way data bus with the CPU/ATA interface IC
76	VSS1	—	Ground terminal
77, 78	DD11, DD4	I/O	ATAPI two-way data bus with the CPU/ATA interface IC
79, 80	DD10, DD5	I/O	ATAPI two-way data bus with the CPU/ATA interface IC
81, 82	DD9, DD6	I/O	ATAPI two-way data bus with the CPU/ATA interface IC
93, 84	DD8, DD7	I/O	ATAPI two-way data bus with the CPU/ATA interface IC
85	VDD0	—	Power supply terminal (+5V)
86	TEST1	I	For test terminal (normally: fixed at “L”)
87	ROUT	O	Audio signal output terminal (R-ch) Not used
88	AUVDD	—	Power supply terminal (+5V)
89	AUVSS	—	Ground terminal
90	LOUT	O	Audio signal output terminal (L-ch) Not used
91	VSS	—	Ground terminal
92	XTALCK	I	System clock input terminal (33.8688 MHz)
93	XTAL	O	System clock output terminal (33.8688 MHz)
94	VDD0	—	Power supply terminal (+5V)
95	FSX/LRCK	O	Not used
96	EFLG/CK2	O	Not used
97	TRV2/DATA	I/O	Not used
98	TRV	I/O	Not used
99	FLOCK/ CRCERRC2F/PCK	O	FLOCK/CRCERRC2F/PCK signal output terminal Not used
100	EFMOUT	O	EFM signal output terminal Not used
101	OUTPORT	O	Not used
102	SW1	I	Tray close detection input terminal Not used
103	SW2	I	Tray open detection input terminal Not used
104	SW3	I	Detection signal input for an eject key Not used
105 to 107	IOPORT3 to IOPORT5	I/O	Not used
108	IOPORT6	O	Standby signal output to the BA5918FP
109	VSSD	—	Ground terminal
110	VDD1	—	Power supply terminal (+3.3V)
111	VSS	—	Ground terminal
112	VDDD	—	Power supply terminal (+5V)
113	IOPORT7	O	Brake signal output to the spindle motor driver
114, 115	IOPORT8, IOPORT9	I/O	Not used
116	DSLB	O	PWM signal output for slice level
117	AVDD	—	Power supply terminal (+3.3V)
118, 119	SLCIST1, SLCIST2	I	EFM slice level setting terminal

Pin No.	Pin Name	I/O	Description
120 to 123	SLCO0 to SLCO3	O	EFM slice level signal output terminal
124	EFMIN	I	EFM signal input from the RF amp
125	EFMIN2	I	EFM signal input from the RF amp
126	AVSS	—	Ground terminal
127	JITC	O	Jitter output terminal
128	PWM0	O	PWM signal output for VCO Not used
129	FR	I	VCO frequency setting terminal
130	PCKISTF	I	Charge pump setting terminal for frequency comparison
131	PCKISTP	I	Charge pump setting terminal for phase comparison
132	PLL2VDD	—	Power supply terminal (+3.3V)
133	PLL2VSS	—	Ground terminal
134	PD0	O	Charge pump filter output terminal
135 to 137	PDS1 to PDS3	O	Charge pump selection output terminal
138	RPO	O	P/N balance adjustment terminal
139	SVSS	—	Ground terminal
140	AD1	I	Focus error signal input from the RF amp
141	PH	I	Light amount signal (RF/ABCD) peak hold signal input from the RF amp
142	BH	I	Light amount signal (RF/ABCD) bottom hold signal input from the RF amp
143	RREC	I	Reflection signal input from the RF amp
144	FE	I	Focus error signal input from the RF amp
145	TE	I	Tracking error signal input from the RF amp
146	TES	I	TES signal input from the RF amp
147	VREF	I	Reference voltage input terminal
148	PHC	O	Connected to the external capacitor for peak hold slice
149	BHC	O	Connected to the external capacitor for bottom hold slice
150	FBAL	O	Focus balance adjustment signal output to the RF amp
151	TBAL	O	Tracking balance adjustment signal output to the RF amp
152	SGC	O	Servo gain adjustment signal output to the RF amp
153	TOFST	O	Tracking offset adjustment signal output
154	SVDD	—	Power supply terminal (+5V)
155	SVSS	—	Ground terminal
156	TDO	O	Tracking servo drive signal output to the BA5918FP
157	FDO	O	Focus servo drive signal output to the BA5918FP
158	SLDO	O	Sled servo drive signal output to the BA5918FP
159	SPDO	O	Spindle servo drive signal output to the BA5918FP
160	VDD0	—	Power supply terminal (+5V)
161	VSS	—	Ground terminal
162	VDD1	—	Power supply terminal (+3.3V)
163	RHLD	—	Automatic power control hold signal output to the RF amp
164	TSH	O	TS frequency control signal output to the RF amp
165	EQS	O	RF equalizer selection signal output to the RF amp
166	GHS	O	RF and servo gain control signal output to the RF amp
167	LDON	O	Laser diode on/off control signal output to the RF amp
168	TEST2	I	For test terminal (normally: fixed at “L”)
169	FG	I	FG signal input from the spindle motor driver
170	IOPORT10	O	Standby signal output to the spindle motor driver

Pin No.	Pin Name	I/O	Description
171	IOPORT11	O	Phase control signal output to the spindle motor driver
172	IOPORT12	I/O	Not used
173	IOPORT13 (DSP_RX)	I/O	Not used
174	IOPORT14 (DSP_TX)	I/O	Not used
175	ZRESET	I	Reset signal input from the reset signal generator or CPU
176	VDD0	—	Power supply terminal (+3.3V)

• MAIN BOARD IC1010 HD6417709AF133 (CPU)

Pin No.	Pin Name	I/O	Description
1, 2	MD1, MD2	I	Clock mode selection input terminal
3	VCC_RTC	—	Power supply terminal (+1.9V)
4	NC	O	Sub system clock output terminal (32.768kHz) (for the internal real time clock) Not used
5	EXTAL2	I	Sub system clock input terminal (32.768kHz) (for the internal real time clock) Not used
6	VSS_RTC	—	Ground terminal
7	NMI	I	Non-maskable interrupt input terminal Not used
8 to 11	XIRL0 to XIRL3	I	Interrupt request signal input from the CPU/ATA interface IC
12	IRQ4	I	Interrupt request signal input terminal Not used
13 to 18	BB_LED7 to BB_LED2	O	Not used
19	DGND	—	Ground terminal
20	BB_LED1	O	Not used
21	D3.3V	—	Power supply terminal (+3.3V)
22	BB_LED0	O	Not used
23 to 25	NC	O	Not used
26	FLD_ON	O	Fluorescent indicator tube driver power supply on/off control signal output terminal “H”: fluorescent indicator tube on
27	DGND	—	Ground terminal
28	FL_ON	O	Fluorescent indicator tube power supply on/off control signal output terminal “H”: fluorescent indicator tube on
29	D1.9V	—	Power supply terminal (+1.9V)
30	ILL_ON	O	Power supply on/off control signal output at the illumination “H”: illumination on
31	USB_ACS_LED	O	LED drive signal output terminal
32	MS_ACS_LED	O	LED drive signal output terminal
33	DGND	—	Ground terminal
32	MS_ACS_LED	O	LED drive signal output terminal
34	SH_D15	I/O	Two-way data bus with the CPU/ATA interface IC, memory stick interface IC, USB interface IC, display controller, 64MB flash memory and 128MB SD-RAM
35	D3.3V	—	Power supply terminal (+3.3V)
36 to 44	SH_D14 to SH_D6	I/O	Two-way data bus with the CPU/ATA interface IC, memory stick interface IC, USB interface IC, display controller, 64MB flash memory and 128MB SD-RAM
45	DGND	—	Ground terminal
46	SH_D5	I/O	Two-way data bus with the CPU/ATA interface IC, memory stick interface IC, USB interface IC, display controller, 64MB flash memory and 128MB SD-RAM
47	D3.3V	—	Power supply terminal (+3.3V)
48 to 52	SH_D4 to SH_D0	I/O	Two-way data bus with the CPU/ATA interface IC, memory stick interface IC, USB interface IC, display controller, 64MB flash memory and 128MB SD-RAM
53	SH_A0	O	Address signal output terminal Not used
54, 55	SH_A1, SD_A2	O	Two-way data bus with the CPU/ATA interface IC, memory stick interface IC, USB interface IC, display controller, 64MB flash memory and 128MB SD-RAM
56	SH_A3	O	Address signal output to the CPU/ATA interface IC, memory stick interface IC, 64MB flash memory and 128MB SD-RAM
57	DGND	—	Ground terminal
58	SH_A4	O	Address signal output to the CPU/ATA interface IC, memory stick interface IC, 64MB flash memory and 128MB SD-RAM
59	D3.3V	—	Power supply terminal (+3.3V)
60 to 68	SH_A5 to SH_A13	O	Address signal output to the CPU/ATA interface IC, memory stick interface IC, 64MB flash memory and 128MB SD-RAM
69	DGND	—	Ground terminal

Pin No.	Pin Name	I/O	Description
70	SH_A14	O	Address signal output to the CPU/ATA interface IC, memory stick interface IC, 64MB flash memory and 128MB SD-RAM
71	D3.3V	—	Power supply terminal (+3.3V)
72	SH_A15	O	Address signal output to the CPU/ATA interface IC, memory stick interface IC and 64MB flash memory
73 to 77	SH_A16 to SH_A20	O	Address signal output to the CPU/ATA interface IC and 64MB flash memory
78	SH_A21	O	Address signal output to the 64MB flash memory
79	DGND	—	Ground terminal
80	SH_A22	O	Address signal output to the 64MB flash memory
81	D1.9V	—	Power supply terminal (+1.9V)
82	SH_A23	O	Address signal output to the CPU/ATA interface IC
83	DGND	—	Ground terminal
84	SH_A24	O	Address signal output to the CPU/ATA interface IC
85	D3.3V	—	Power supply terminal (+3.3V)
86	SH_A25	O	Address signal output to the CPU/ATA interface IC
87	XBS	O	Bus start signal output to the CPU/ATA interface IC
88	XRD	O	Read strobe signal output to the CPU/ATA interface IC, memory stick interface IC, USB interface IC and 64MB flash memory
89	XWE0/DQMLL	O	Write enable signal output to the CPU/ATA interface IC, memory stick interface IC, USB interface IC, display controller and 128MB SD-RAM
90	XWE1/DQMLU	O	Write enable signal output to the CPU/ATA interface IC, memory stick interface IC, and 128MB SD-RAM
91	XWE2/DQMUL	O	Write enable signal output terminal Not used
92	XWE3/DQMUU	O	Write enable signal output terminal Not used
93	RDXWR	O	Read/write signal output to the CPU/ATA interface IC, 64MB flash memory and 128MB SD-RAM
94	XAUDSYNC	O	Not used
95	DGND	—	Ground terminal
96	XCS0	O	Chip select signal output to the 64MB flash memory
97	D3.3V	—	Power supply terminal (+3.3V)
98	XCS2	O	Chip select signal output to the USB interface IC
99	XCS3	O	Chip select signal output to the 128MB SD-RAM
100	XCS4	O	Chip select signal output to the CPU/ATA interface IC
101	XCS5	O	Chip select signal output to the memory stick interface IC
102	XCS6	O	Chip select signal output to the display controller
103	NC	O	Not used
104	XCE2B	O	Not used
105	CKE	O	Clock enable signal output to the 128M SD-RAM
106	XRAS3	O	Row address strobe signal output to the 128M SD-RAM
107	NC	O	Not used
108	CASL	O	Column address strobe signal output to the 128M SD-RAM
109	DGND	—	Ground terminal
110	CASU	O	Column address strobe signal output terminal Not used
111	D3.3V	—	Power supply terminal (+3.3V)
112, 113	NC	O	Not used
114	XDACK0	O	Acknowledge signal output to the USB interface IC
115	XDACK1	O	Acknowledge signal output to the display controller
116, 117	NC	O	Not used
118	XRAS3U	O	Row address strobe signal output terminal Not used

Pin No.	Pin Name	I/O	Description
119	NC	O	Not used
120	TDO	O	Serial data output terminal Not used
121	NC	O	Acknowledge signal output terminal Not used
122	XBREQ	I	Not used
123	XWAIT	I	Wait signal input from the CPU/ATA interface IC
124	RESET	I	Manual reset signal input terminal Not used
125	RE_LA	I	Rotary encoder dial pulse input terminal (Left/A phase input) Not used
126	XTMODE	I	Not used
127	XASEMDO	—	Not used
128	XASEBRKAK	—	Not used
129	DIAG	I	Not used
130	AUDATA3	I	Not used
131	AUDATA2	I	Not used
132	DGND	—	Ground terminal
133	AUDATA1	I	Not used
134	D1.9V	—	Power supply terminal (+1.9V)
135	AUDATA0	I	Not used
136	XTRST	I	Not used
137	TMS	I	Not used
138	TDI	I	Not used
139	TCK	I	Not used
140	RE_RA	I	Rotary encoder dial pulse input terminal (Right/A phase input) Not used
141	RE_RB	I	Rotary encoder dial pulse input terminal (Right/B phase input) Not used
142	DON'T USE0	—	Not used
143	DON'T USE1	—	Not used
144	MD0	I	Clock mode selection input terminal
145	D1.9V	—	Power supply terminal (+1.9V)
146	CAP1	—	Connected to the external capacitor for PLL2
147, 148	DGND	—	Ground terminal
149	CAP2	—	Connected to the external capacitor for PLL2
150	D1.9V	—	Power supply terminal (+1.9V)
151	AUDCK	O	Not used
152, 153	DGND	—	Ground terminal
154	D1.9V	—	Power supply terminal (+1.9V)
155	XTAL	O	Main system clock output terminal (33.3333MHz) Not used
156	EXTAL	I	Main system clock input terminal (33.3333MHz)
157, 158	NC	O	Not used
159	SA_CLK	O	Spectrum analyze data transfer clock signal output to the electrical volume
160	NC	O	Not used
161	DGND	—	Ground terminal
162	CKIO	O	System clock signal output to the CPU/ATA interface IC, complex programmable logic device and 128MB SD-RAM
163	D3.3V	—	Power supply terminal (+3.3V)
164, 165	NC	O	Not used
166	TXD	O	Not used
167	NC	O	Not used
168	SUB_RXD	O	UART receive data output to the system controller “L” active
169, 170	NC	O	Not used
171, 172	RXD0, RXD2	I	Not used
173	DGND	—	Ground terminal

Pin No.	Pin Name	I/O	Description
174	SUB_TXD	I	UART transmit data input from the system controller "L" active
175	D1.9V	—	Power supply terminal (+1.9V)
176 to 178	NC	—	Not used
179	XIDE_RST	O	Reset signal output terminal for the CD DSP "L" reset
180	MS_PWR	O	Memory stick power supply on/off control signal output terminal "H": memory stick power on
181	DGND	—	Ground terminal
182	NC	O	Not used
183	D3.3V	—	Power supply terminal (+3.3V)
184	NC	O	Not used
185	XUSB_RST	O	Reset signal output for the USB interface IC "L" reset
186	XHB_RST	O	Reset signal output for the DSP "L" reset
187	XHB_RST	O	Reset signal output for the memory stick interface IC "L" reset
188	SH_WDT	O	Watch dog timer detection signal output to the system controller
189	XFAIL	O	Rewriting failure detection terminal "L" rewriting failure Not used
190	D_MUTING	O	Muting on/off control signal output "L": muting on
191	XDREQ0	I	DMA request signal input from the USB interface IC
192	XDREQ1	I	DMA request signal input from the display controller
193	XRST_SYS	I	System reset signal input from the system controller
194	CA	I	Chip active signal input terminal
195 to 197	MD3 to MD5	I	Clock mode selection input terminal
198	DGND	—	Ground terminal
199	USB_VCCD	I	Not used
200	SA_DATA	I	Spectrum analyze data input from the electrical volume
201	RE_LB	I	Rotary encoder dial pulse input terminal (left/B phase input) Not used
202 to 204	NC	I	Not used
205	D3.3V	—	Power supply terminal (+3.3V)
206, 207	NC	I	Not used
208	DGND	—	Ground terminal

• MAIN BOARD IC2003 CXD9533Q (CPU/ATA INTERFACE)

Pin No.	Pin Name	I/O	Description
1	VDD	—	Power supply terminal (+3.3V)
2, 3	SD_D03, SD_D04	I/O	Two-way data bus with the SD-RAM
4	VSS	—	Ground terminal
5, 6	SD_D05, SD_D06	I/O	Two-way data bus with the SD-RAM
7	VDD	—	Power supply terminal (+3.3V)
8, 9	SD_D07, SD_D08	I/O	Two-way data bus with the SD-RAM
10	VSS	—	Ground terminal
11 to 17	SD_D09 to SD_D15	I/O	Two-way data bus with the SD-RAM
18	SD_DQML	O	Write mask signal output to the SD-RAM (lower byte)
19	SD_DQMU	O	Write mask signal output to the SD-RAM (lower byte)
20	VDD	—	Power supply terminal (+3.3V)
21	SD_CLK	O	Clock signal output to the SD-RAM
22	VSS	—	Ground terminal
23	SD_XWE	O	Write enable signal output to the SD-RAM
24	SD_XCAS	O	Write enable signal output to the SD-RAM
25	SD_XRAS	O	Column address strobe signal output to the SD-RAM
26	SD_XCS1	O	Chip select signal output to the SD-RAM
27	VDD	—	Power supply terminal (+3.3V)
28, 29	SD_A11, SD_A10	O	Address signal output to the SD-RAM
31 to 33	SD_A09 to SD_A07	O	Address signal output to the SD-RAM
34	VDD	—	Power supply terminal (+3.3V)
35, 36	SD_A06, SD_A05	O	Address signal output to the SD-RAM
37	VSS	—	Ground terminal
38 to 42	SD_A04 to SD_A00	O	Address signal output to the SD-RAM
43 to 46	AV_HD00 to AV_HD03	I/O	Two-way AV data bus with the DSP
47	VDD	—	Power supply terminal (+3.3V)
48, 49	AV_HD05, AV_HD06	I/O	Two-way AV data bus with the DSP
50	VSS	—	Ground terminal
51 to 54	AV_HD06 to AV_HD09	I/O	Two-way AV data bus with the DSP
55	VDD	—	Power supply terminal (+3.3V)
56, 57	AV_HD10, AV_HD11	I/O	Two-way AV data bus with the DSP
58	VSS	—	Ground terminal
59 to 62	AV_HD12 to AV_HD15	I/O	Two-way AV data bus with the DSP
63	AV_BEND0	O	AV bus block data transfer completely signal output terminal Not used
64 to 66	AV_BEND1 to AV_BEND3	O	AV bus block data transfer completely signal output to the DSP
67	XAV_DRQ0	I	AV bus data request signal input terminal Not used
68 to 70	XAV_DRQ1 to XAV_DRQ3	I	AV bus data request signal input from the DSP

Pin No.	Pin Name	I/O	Description
71	VDD	—	Power supply terminal (+3.3V)
72	XAV_HRDY	I	AV bus ready signal input from the XC9536XL
73	VSS	—	Ground terminal
74	XAV_HDS	O	AV bus data strobe signal output to the XC9536XL
75 to 77	AV_HA1 to AV_HA3	O	AV bus address signal output to the DSP
78	AV_HRXW	O	AV bus read or write enable signal output to the DSP
79	XAV_HCS0	O	AV bus chip select signal output to the XC9536XL
80	XAV_HCS1	O	Chip select signal output terminal
81	AV_CMD	O	AV bus command-set signal output to the DSP
82	VDD	—	Power supply terminal (+3.3V)
83	XAV_HINT0	I	AV bus interrupt request signal input from the DSP
84	XAV_HINT1	I	Interrupt request signal input terminal Not used
85, 86	VSS	—	Ground terminal
87, 88	ID_DD00, ID_DD01	I/O	ATAPI two-way data bus with the LC895300
89	VCC	—	Power supply terminal (+5V)
90 to 92	ID_DD02 to ID_DD04	I/O	ATAPI two-way data bus with the LC895300
93	VSS	—	Ground terminal
94, 95	ID_DD05, ID_DD06	I/O	ATAPI two-way data bus with the LC895300
96	VDD	—	Power supply terminal (+3.3V)
97 to 99	ID_DD07 to ID_DD09	I/O	ATAPI two-way data bus with the LC895300
100	VSS	—	Ground terminal
101, 102	ID_DD10, ID_DD11	I/O	ATAPI two-way data bus with the LC895300
103	VCC	—	Power supply terminal (+3.3V)
104, 105	ID_DD12, ID_DD13	I/O	ATAPI two-way data bus with the LC895300
106	VCC	—	Power supply terminal (+3.3V)
107, 108	ID_DD14, ID_DD15	I/O	ATAPI two-way data bus with the LC895300
109	VSS	—	Ground terminal
110 to 112	ID_DA0 to ID/DA2	O	ATAPI bus address signal output to the LC895300
113	ID0_INTR	I	ATAPI bus interrupt request signal input from the HDD
114	VCC	—	Power supply terminal (+5V)
115	ID1_INTR	I	ATAPI bus interrupt request signal input from the LC895300
116	ID0_XDMAK	O	ATAPI bus DMA acknowledge signal output to the HDD
117	ID1_XDMAK	O	ATAPI bus DMA acknowledge signal output to the LC895300
118	ID0_XCS0	O	ATAPI bus chip select signal output to the HDD
119	ID0_XCS1	O	ATAPI bus chip select signal output to the HDD
120	ID0_DMRQ	I	ATAPI bus DMA request signal input from the HDD
121	VSS	—	Ground terminal
122	ID1_DMRQ	I	ATAPI bus DMA request signal input from the LC895300

Pin No.	Pin Name	I/O	Description
123	ID_IORDY	I	ATAPI bus ready signal input from the LC895300
124	ID_XDIOR	O	ATAPI bus IOR signal output to the LC895300
125	ID_XDIOW	O	ATAPI bus IOW signal output to the LC895300
126	VCC	—	Power supply terminal (+5V)
127, 128	ID1_XCS0, ID1_XCS1	O	ATAPI bus chip select signal output to the LC895300
129, 130	VSS	—	Ground terminal
131, 132	T, W	I	For test terminal (normally: fixed at “L”)
133	VDD	—	Power supply terminal (+3.3V)
134	CU_RXCLK	I	Cuckoo I/F RX data receive clock signal input terminal Not used
135	CU_RXDAT	I	Cuckoo I/F RX data input terminal Not used
136	CU_STRDI	I	Cuckoo I/F strobe/ready signal input terminal Not used
137	CU_CONH	I	Cuckoo I/F monitor signal input terminal Not used
138	CU_STRD0	O	Cuckoo I/F strobe/ready signal output terminal Not used
139	CU_TXDAT	O	Cuckoo I/F TX data output terminal Not used
140	CU_TXCLK	O	Cuckoo I/F TX data transfer clock signal output terminal Not used
141	VSS	—	Ground terminal
142	CU_TXOSC	O	Cuckoo I/F TX data transfer clock source output terminal Not used
143	VDD	—	Power supply terminal (+3.3V)
144, 145	EX_XWAIT1, EX_XWAIT0	I	Wait signal input terminal Not used
146	EX_XIRQ0	I	Interrupt request signal input from the memory stick interface IC
147	EX_XIRQ1	I	Interrupt request signal input from the USB interface IC
148 to 151	SH_XIRL0 to SH_XIRL3	O	Interrupt request signal output to the CPU
152	SH_XWAIT	O	Wait signal output to the CPU
153	SH_XRST	I	System reset signal input from the system controller
154	SH_XRD	I	Read strobe signal input to the CPU
155	SH_XRDWR	I	Read/write signal input from the CPU
156 157	XWE0, SH_XWE1	I	Write enable signal input from the CPU
158	SH_XBS	I	Bus start signal input from the CPU
159	VSS	—	Ground terminal
160	SH_CKIO	I	System clock signal input from the CPU
161	VDD	—	Power supply terminal (+3.3V)
162	SH_XCS	I	Chip select signal input from the CPU
163 to 165	SH_A25 to SH_A23	I	Address signal input from the CPU
166 to 179	SH_A20 to SH_A07	I	Address signal input from the CPU
180	VSS	—	Ground terminal
181, 182	SH_A06, SHA05	I	Address signal input from the CPU
183	VDD	—	Power supply terminal (+3.3V)
184 to 187	SH_A04 to SH_A01	I	Address signal input from the CPU

Pin No.	Pin Name	I/O	Description
188 to 194	SH_D00 to SH_D06	I/O	Two-way data bus with the CPU, memory stick interface IC, USB interface IC, display controller, 64MB flash memory and 128MB SD-RAM
195	VSS	—	Ground terminal
196, 197	SH_D07, SH_D08	I/O	Two-way data bus with the CPU, memory stick interface IC, USB interface IC, display controller, 64MB flash memory and 128MB SD-RAM
198	VDD	—	Power supply terminal (+3.3V)
199 to 205	SH_D09 to SH_D15	I/O	Two-way data bus with the CPU, memory stick interface IC, USB interface IC, display controller, 64MB flash memory and 128MB SD-RAM
206 to 208	SD_D00 to SD_D02	I/O	Two-way data bus with the SD-RAM

• MAIN BOARD IC3000 XC9536XL-5VQ44C-HB01 (COMPLEX PROGRAMMABLE LOGIC DEVICE)

Pin No.	Pin Name	I/O	Description
1 to 3	PGND	I/O	Not used
4	GND	—	Ground terminal
5	PRDY	O	AV bus ready signal output to the CPU/ATA interface IC
6	XPDS	I	AV bus data strobe signal input from the CPU/ATA interface IC
7	XPCS	I	AV bus chip select signal input from the CPU/ATA interface IC
8	PGND	I/O	Not used
9	TDI	I	Not used
10	TMS	I	Not used
11	TCK	I	Not used
12 to 14	PGND	I/O	Not used
15	VCC	—	Power supply terminal (+3.3V)
16	PGND	I/O	Not used
17	GND	—	Ground terminal
18 to 23	PGND	I/O	Not used
24	TDO	O	Not used
25	GND	—	Ground terminal
26	VCC	—	Power supply terminal (+3.3V)
27, 28	PGND	I/O	Not used
29	XHCS	O	AV bus chip select signal output to the DSP
30	XHDS	O	AV bus data strobe signal output to the DSP
31	XHRDY	I	AV bus ready signal input from the DSP
32	PGND	I/O	Not used
33	XRST	I	System reset signal input from the system controller
34	PGND	I/O	Not used
35	VCC	—	Power supply terminal (+3.3V)
36 to 42	PGND	I/O	Not used
43	CLK	I	System clock signal input terminal Not used
44	PGND	I	System clock signal input from the CPU

• **MAIN BOARD IC3003 TMS320C6211GFN167 (DSP)**

Pin No.	Pin Name	I/O	Description
1, 2	VSS	—	Ground terminal
3	CLKIN	I	System clock input terminal (37.5 MHz)
4	PLLV	—	Power supply terminal (+3.3V) (for PLL)
5	RSV2	O	Reserved terminal Not used
6	TCK	I	Clock signal input terminal (for test) Not used
7	TDI	I	Data input terminal (for test) Not used
8	TDO	O	Data output terminal (for test) Not used
9, 10	CVDD	—	Power supply terminal (+1.8V)
11	VSS	—	Ground terminal
12	CVDD	—	Power supply terminal (+1.8V)
13	XRESET	I	Reset signal input from the CPU
14	VSS	—	Ground terminal
15, 16	HD13, HD11	I/O	Two-way AV data bus with the CPU/ATA interface IC
17	DVDD	—	Power supply terminal (+3.3V)
18	HD7	I/O	Two-way AV data bus with the CPU/ATA interface IC
19 to 21	VSS	—	Ground terminal
22	CVDD	—	Power supply terminal (+1.8V)
23	DVDD	—	Power supply terminal (+3.3V)
24	VSS	—	Ground terminal
25	PLLF	—	PLL low-pass filter connection to external components and a bypass capacitor
26	XTRST	I	Reset signal input terminal Not used
27	TMS	I	Mode select terminal (for test) Not used
28	DVDD	—	Power supply terminal (+3.3V)
29, 30	EMU1, EMU3	I/O	Emulation terminal Not used
31	VSS	—	Ground terminal
32	EMU5	I/O	Emulation terminal Not used
33	DVDD	—	Power supply terminal (+3.3V)
34	HD15	I/O	Two-way AV data bus with the CPU/ATA interface IC
35	VSS	—	Ground terminal
36 to 38	HD10, HD8, HD5	I/O	Two-way AV data bus with the CPU/ATA interface IC
39	CVDD	—	Power supply terminal (+1.8V)
40	VSS	—	Ground terminal
41	EXT_INT5	I	AV bus block data transfer completely signal input from the CPU/ATA interface IC
42	EXT_INT4	I	AV bus command-set signal input from the CPU/ATA interface IC
43	CVDD	—	Power supply terminal (+1.8V)
44	CLKMODE0	I	Clock mode setting terminal Fixed at “L” in this set
45	DVDD	—	Power supply terminal (+3.3V)
46	PLLG	—	PLL analog GND connection for the low-pass filter
47	CVDD	—	Power supply terminal (+1.8V)
48, 49	VSS	—	Ground terminal
50	DVDD	—	Power supply terminal (+3.3V)
51	EMU4	I/O	Emulation terminal Not used
52	RSV0	O	Reserved terminal Not used
53	NMI	I	Non-maskable interrupt input Fixed at “H” in this set
54, 55	HD14, HD12	I/O	Two-way AV data bus with the CPU/ATA interface IC

Pin No.	Pin Name	I/O	Description
56, 57	HD9, HD6	I/O	Two-way AV data bus with the CPU/ATA interface IC
58	CVDD	—	Power supply terminal (+1.8V)
59, 60	HD4, HD3	I/O	Two-way AV data bus with the CPU/ATA interface IC
61	DVDD	—	Power supply terminal (+3.3V)
62	EXT_INT6	I	AV bus block data transfer completely signal input from the CPU/ATA interface IC
63	RSV3	O	Reserved terminal Not used
64	VSS	—	Ground terminal
65, 66	CVDD	—	Power supply terminal (+1.8V)
67	CLKOUT1	O	Clock signal output terminal Not used
68	VSS	—	Ground terminal
69, 70	EMU0, EMU2	I/O	Emulation terminal Not used
71	CVDD	—	Power supply terminal (+1.8V)
72	RSV1	O	Reserved terminal Not used
73	VSS	—	Ground terminal
74, 75	CVDD	—	Power supply terminal (+1.8V)
76	DVDD	—	Power supply terminal (+3.3V)
77	VSS	—	Ground terminal
78	HD2	I/O	Two-way AV data bus with the CPU/ATA interface IC
79	DVDD	—	Power supply terminal (+3.3V)
80	HD1	I/O	Two-way AV data bus with the CPU/ATA interface IC
81	CLKS1	I	Clock source signal input terminal Not used
82	VSS	—	Ground terminal
83	EXT_INT7	I	AV bus block data transfer completely signal input from the CPU/ATA interface IC
84, 85	VSS	—	Ground terminal
86	XHAS	I	Host address strobe signal input terminal Not used
87	XHDS1	I	AV bus data strobe signal input from the XC9536XL
88	HD0	I/O	Two-way AV data bus with the CPU/ATA interface IC
89	TOUT1 (AV_DRQ2)	O	AV bus data request signal output to the CPU/ATA interface IC
90	TINP1	I	Timer or general-purpose input terminal Not used
91	DVDD	—	Power supply terminal (+3.3V)
92, 93	CVDD	—	Power supply terminal (+1.8V)
94	XHDS2	I	Host data strobe signal input terminal Not used
95	VSS	—	Ground terminal
96	XHCS	I	AV bus chip select signal input from the XC9536XL
97	TOUT0 (AV_DRQ1)	O	AV bus data request signal output to the CPU/ATA interface IC
98	TINP0	I	Timer or general-purpose input terminal Not used
99	CLKX0	O	Clock signal output terminal Not used
100, 101	VSS	—	Ground terminal
102, 103	HCNTL0, HCNTL1	I	AV bus address signal input from the CPU/ATA interface IC
104	HR/XW	I	AV bus read or write enable signal input from the CPU/ATA interface IC
105	FSX0	O	Frame sync signal output terminal Not used
106	DX0	O	Data signal output terminal Not used
107	CLKR0	I	Clock signal input terminal Not used
108, 109	VSS	—	Ground terminal

Pin No.	Pin Name	I/O	Description
110	DVDD	—	Power supply terminal (+3.3V)
111	XHRDY	O	AV bus ready signal output to the XC9536XL
112	HHWIL	I	AV bus address signal input from the CPU/ATA interface IC
113	DR0	I	Data signal input terminal Not used
114	DVDD	—	Power supply terminal (+3.3V)
115	FSR0	I	Frame sync signal input terminal Not used
116	VSS	—	Ground terminal
117	XHOLD	I	Hold request signal output terminal Not used
118	XHOLDA	O	Hold request acknowledge signal output terminal Not used
119	BUSREQ	O	Bus request signal output terminal Not used
120	XHINT	O	AV bus interrupt request signal output to the CPU/ATA interface IC
121	CVDD	—	Power supply terminal (+1.8V)
122	VSS	—	Ground terminal
123	CLKS0	I	Clock source signal input terminal Not used
124, 125	CVDD	—	Power supply terminal (+1.8V)
126, 127	ED0, ED1	I/O	Two-way data bus terminal Not used
128	VSS	—	Ground terminal
129	FSX1	O	Frame sync signal output terminal Not used
130	DX1 (AV_DRQ3)	O	AV bus data request signal output to the CPU/ATA interface IC
131	CLKX1	O	Clock signal output terminal Not used
132, 133	CVDD	—	Power supply terminal (+1.8V)
134, 135	ED2, ED3	I/O	Two-way data bus terminal Not used
136	CVDD	—	Power supply terminal (+1.8V)
137	CLKR1	I	Clock signal input terminal Not used
138	DR1	I	Data signal input terminal Not used
139	FSR1	I	Frame sync signal input terminal Not used
140, 141	VSS	—	Ground terminal
142	DVDD	—	Power supply terminal (+3.3V)
143, 144	ED4, ED5	I/O	Two-way data bus terminal Not used
145	DVDD	—	Power supply terminal (+3.3V)
146	RSV4	O	Reserved terminal Not used
147	ED31	I/O	Two-way data bus terminal Not used
148, 149	VSS	—	Ground terminal
150 to 152	ED6 to ED8	I/O	Two-way data bus terminal Not used
153 to 155	ED28 to ED30	I/O	Two-way data bus terminal Not used
156, 157	VSS	—	Ground terminal
158	ED9	I/O	Two-way data bus terminal Not used
159	VSS	—	Ground terminal
160	ED10	I/O	Two-way data bus terminal Not used
161	DVDD	—	Power supply terminal (+3.3V)
162, 163	ED27, ED26	I/O	Two-way data bus terminal Not used
164, 165	CVDD	—	Power supply terminal (+1.8V)
166	DVDD	—	Power supply terminal (+3.3V)
167, 168	ED11, ED12	I/O	Two-way data bus terminal Not used
169, 170	ED24, ED25	I/O	Two-way data bus terminal Not used

Pin No.	Pin Name	I/O	Description
171	DVDD	—	Power supply terminal (+3.3V)
172, 173	VSS	—	Ground terminal
174	ED13	I/O	Two-way data bus terminal Not used
175, 176	ED15, ED14	I/O	Two-way data bus terminal Not used
177, 178	ED22, ED21	I/O	Two-way data bus terminal Not used
179	ED23	I/O	Two-way data bus terminal Not used
180	VSS	—	Ground terminal
181	DVDD	—	Power supply terminal (+3.3V)
182	CVDD	—	Power supply terminal (+1.8V)
183	DVDD	—	Power supply terminal (+3.3V)
184, 185	VSS	—	Ground terminal
186, 187	CVDD	—	Power supply terminal (+1.8V)
188	DVDD	—	Power supply terminal (+3.3V)
189	VSS	—	Ground terminal
190, 191	CVDD	—	Power supply terminal (+1.8V)
192	DVDD	—	Power supply terminal (+3.3V)
193	VSS	—	Ground terminal
194	EA21	O	Address signal output terminal Not used
195	XBE1	O	Byte enable control signal output terminal Not used
196	VSS	—	Ground terminal
197, 198	ED20, ED19	I/O	Two-way data bus terminal Not used
199	CVDD	—	Power supply terminal (+1.8V)
200	ED16	I/O	Two-way data bus terminal Not used
201	XBE3	O	Byte enable control signal output terminal Not used
202	XCE3	O	Memory space enables signal output terminal Not used
203, 204	EA3, EA5	O	Address signal output terminal Not used
205, 206	EA8, EA10	O	Address signal output terminal Not used
207	XSDCAS	O	SD-RAM column address strobe signal output terminal Not used
208	XSDWE	O	SD-RAM write enable signal output terminal Not used
209	DVDD	—	Power supply terminal (+3.3V)
210	EA12	O	Address signal output terminal Not used
211	DVDD	—	Power supply terminal (+3.3V)
212	EA17	O	Address signal output terminal Not used
213	XCE0	O	Memory space enables signal output terminal Not used
214	CVDD	—	Power supply terminal (+1.8V)
215	DVDD	—	Power supply terminal (+3.3V)
216	XBE0	O	Byte enable control signal output terminal Not used
217	VSS	—	Ground terminal
218	CVDD	—	Power supply terminal (+1.8V)
219	DVDD	—	Power supply terminal (+3.3V)
220	ED17	I/O	Two-way data bus terminal Not used
221	VSS	—	Ground terminal
222	XCE2	O	Memory space enables signal output terminal Not used
223, 224	EA4, EA6	O	Address signal output terminal Not used
225	DVDD	—	Power supply terminal (+3.3V)
226	XSDRAS	O	SD-RAM row address strobe signal output terminal Not used

Pin No.	Pin Name	I/O	Description
227	VSS	—	Ground terminal
228	DVDD	—	Power supply terminal (+3.3V)
229 to 231	EA11, EA13, EA15	O	Address signal output terminal Not used
232	VSS	—	Ground terminal
233	EA19	O	Address signal output terminal Not used
234	XCE1	O	Memory space enables signal output terminal Not used
235	CVDD	—	Power supply terminal (+1.8V)
236 to 238	VSS	—	Ground terminal
239	ED18	I/O	Two-way data bus terminal Not used
240	XBE2	O	Byte enable control signal output terminal Not used
241	ARDY	I	Asynchronous memory ready signal input terminal Not used
242	EA2	O	Address signal output terminal Not used
243	DVDD	—	Power supply terminal (+3.3V)
244, 245	EA7, EA9	O	Address signal output terminal Not used
246	ECLKOUT	O	EMIF clock signal output terminal Not used
247	ECLKIN	I	EMIF clock signal input terminal Not used
248	CLKOUT2	O	Clock output at half of device speed Not used
249	VSS	—	Ground terminal
250 to 252	EA14. EA16, EA18	O	Address signal output terminal Not used
253	DVDD	—	Power supply terminal (+3.3V)
254	EA20	O	Address signal output terminal Not used
255	VSS	—	Ground terminal
256	RSV5	O	Reserved terminal Not used

• **MAIN BOARD IC4001 CXD1859AGA**
(DIGITAL SIGNAL PROCESSOR, MAGIC GATE CORE, MEMORY STICK INTERFACE)

Pin No.	Pin Name	I/O	Description
1	CLKSEL2	I	Clock mode setting terminal Fixed at "L" in this set
2	XTAL0	O	Sub system clock output terminal (22.579MHz)
3	EXTAL0	I	Sub system clock input terminal (22.579MHz)
4	VSS0	—	Ground terminal
5	CLKSEL3	I	Clock mode setting terminal Fixed at "H" in this set
6	CLKSEL4	I	Clock mode setting terminal Fixed at "L" in this set
7	VDD0	—	Power supply terminal (+1.8V)
8	VDE0	—	Power supply terminal (+3.3V)
9	XTAL1	O	Main system clock output terminal (20MHz)
10	EXTAL1	I	Main system clock input terminal (20MHz)
11	XOSCSTP	O	Stop oscillating signal output terminal "L": stop oscillating Not used
12	VSS1	—	Ground terminal
13	XRST	I	Reset signal input from the CPU
14	AVS1	—	Ground terminal (for PLL)
15	AVD1	—	Power supply terminal (+3.3V) (for PLL)
16	FS256	O	Clock signal (11.2896 MHz) output to the D/A converter
17	DP0	O	Ready/busy signal output to the EEPROM "L": busy, "H": ready
18	DP1	O	Reset signal output to the EEPROM
19	VSS2	—	Ground terminal
20	BS	O	Bus state signal output to a memory stick
21	SCLK	O	Clock signal output to a memory stick
22	DIO	I/O	Two-way data bus with a memory stick
23	VDE1	—	Power supply terminal (+3.3V)
24	VDD1	—	Power supply terminal (+1.8V)
25	DP2	O	USB communication on/off control signal output terminal "H": USB communication on Not used
26	INS	I	Memory stick in/out detection signal input "L": memory stick is inserted
27	VSS3	—	Ground terminal
28	UDP	I/O	Two-way data bus of USB data Not used
29	AVD2	—	Power supply terminal (+3.3V)
30	UDM	I/O	Two-way data bus of UBS data Not used
31	BCLK	O	Bit clock signal output to the D/A converter
32	LRCK	O	L/R sampling clock signal output to the D/A converter
33	SDO	O	Audio signal output to the D/A converter
34	VSS4	—	Ground terminal
35	SDI	I	Audio signal input terminal Not used
36	DAOUT	O	Digital audio signal output terminal Not used
37	DAIN	I	Digital audio signal input terminal Not used
38	VDE2	—	Power supply terminal (+3.3V)
39 to 44	DB0 to DB5	I/O	Two-way data bus with the CPU, CPU/ATA interface IC, USB interface IC, display controller, 64MB flash memory and 128MB SD-RAM
45	VDD2	—	Power supply terminal (+1.8V)
46	VSS5	—	Ground terminal
47 to 52	DB6 to DB11	I/O	Two-way data bus with the CPU, CPU/ATA interface IC, USB interface IC, display controller, 64MB flash memory and 128MB SD-RAM
53	VDE3	—	Power supply terminal (+3.3V)

Pin No.	Pin Name	I/O	Description
54 to 56	DB12 to DB14	I/O	Two-way data bus with the CPU, CPU/ATA interface IC, USB interface IC, display controller, 64MB flash memory and 128MB SD-RAM
57	VSS6	—	Ground terminal
58	DB15	I/O	Two-way data bus with the CPU, CPU/ATA interface IC, USB interface IC, display controller, 64MB flash memory and 128MB SD-RAM
59 to 63	ADR0 to ADR4	I	Address signal input from the CPU
64	VSS7	—	Ground terminal
65, 66	ADR5, ADR6	I	Address signal input from the CPU
67	VDD3	—	Power supply terminal (+1.8V)
68	VDE4	—	Power supply terminal (+3.3V)
69 to 71	ADR7 to ADR9	I	Address signal input from the CPU
72	VSS8	—	Ground terminal
73 to 77	ADR10 to ADR14	I	Address signal input from the CPU
78	XRD	I	Read enable signal input from the CPU
79	VSS9	—	Ground terminal
80	XWRU	I	Write enable signal input from the CPU (upper byte)
81	XWRL	I	Write enable signal input from the CPU (lower byte)
82	XCS	I	Chip select signal input from the CPU
83	VDE5	—	Power supply terminal (+3.3V)
84	VDD4	—	Power supply terminal (+1.8V)
85	XIRQ	O	Interrupt request signal output to the ATA interface
86	XDREQ0	O	USB DMA request signal output terminal Not used
87	VSS10	—	Ground terminal
88	XDACK0	I	USB DMA acknowledge signal input terminal Not used
89	XDREQ1	O	USB DMA request signal output terminal Not used
90	XDACK1	I	USB DMA acknowledge signal input terminal Not used
91	SIOSI	I	Serial data input from the EEPROM
92	SIOSO	O	Serial data output to the EEPROM
93	SIOCS	O	Chip select signal output to the EEPROM
94	VSS11	—	Ground terminal
95	SIOCK	O	Serial data transfer clock signal output to the EEPROM
96	ACLK	I	ATRAC3 data transfer clock signal input terminal Not used
97	XARQ	O	ATRAC3 data request signal output terminal Not used
98	VDE6	—	Power supply terminal (+3.3V)
99	XABS	I	ATRAC3 data request signal input terminal Not used
100	ACDO	O	ATRAC3 data output terminal Not used
101	ACDI	I	ATRAC3 data input terminal Not used
102	DP3	O	System wake up request signal output terminal Not used
103	TKURST	I	Not used
104	TKDBG	I	Not used
105	VDD5	—	Power supply terminal (+1.8V)
106	VSS12	—	Ground terminal
107	TKTCK	I	Not used
108	TKTDI	I	Not used
109	TKTMS	I	Not used
110	TKTDO	O	Not used

Pin No.	Pin Name	I/O	Description
111	TKTINT	O	Not used
112	MD0	I	Mode setting terminal Fixed at “H” in this set
113	VDE7	—	Power supply terminal (+3.3V)
114	MD1	I	Mode setting terminal Fixed at “L” in this set
115	MD2	I	Mode setting terminal Fixed at “H” in this set
116	TRST	I	Not used
117	VSS13	—	Ground terminal
118	CLKOUT	O	System clock signal output terminal Not used
119	CLKSEL0	I	Clock mode setting terminal Fixed at “H” in this set
120	CLKSEL1	I	Clock mode setting terminal Fixed at “H” in this set

• **MAIN BOARD IC4301 ISP1161BD-118 (USB INTERFACE)**

Pin No.	Pin Name	I/O	Description
1	D_GND	—	Ground terminal (for digital system)
2 to 7	D2 to D7	I/O	Two-way data bus with the CPU, CPU/ATA interface IC, memory stick interface IC, display controller, 64MB flash memory and 128MB SD-RAM
8	D_GND	—	Ground terminal (for digital system)
9 to 14	D8 to D13	I/O	Two-way data bus with the CPU, CPU/ATA interface IC, memory stick interface IC, display controller, 64MB flash memory and 128MB SD-RAM
15	D_GND	—	Ground terminal (for digital system)
16, 17	D14, D15	I/O	Two-way data bus with the CPU, CPU/ATA interface IC, memory stick interface IC, display controller, 64MB flash memory and 128MB SD-RAM
18	D_GND	—	Ground terminal (for digital system)
19	VHOLD_1	—	Voltage holding terminal
20	NC	O	Not used
21	CS_N	I	Chip select signal input from the CPU
22	RD_N	I	Read strobe signal input from the CPU
23	WR_N	I	Write enable signal input from the CPU
24	VHOLD_2	—	Voltage holding terminal
25	DREQ1	O	DMA request signal output to the CPU
26	DREQ2	O	DMA request signal output terminal Not used
27	DACK1	I	Acknowledge signal input from the CPU
28	DACK2	I	Acknowledge signal input terminal Not used
29	INT1	O	Interrupt request signal output to the CPU/ATA interface IC
30	INT2	O	Interrupt request signal output terminal Not used
31	TEST	I	For test terminal (normally: fixed at “H”)
32	RESET_N	I	Reset signal input from the CPU “L” reset
33	NDP_SEL	I	Downstream port selection terminal “L” select 1 downstream port, “H” select 2 downstream ports (fixed at “L” in this set)
34	EOT	I	Not used
35	D_GND	—	Ground terminal (for digital system)
36	D_SUSPEND	O	LED drive signal output terminal Not used
37	D_WAKEUP	I	Wake up signal input terminal Not used
38	GL_N	O	LED drive signal output terminal Not used
39	D_VBUS	I	USB connect detection signal input terminal Not used
40	H_WAKEUP	I	Wake up signal input terminal Not used
41	CLKOUT	O	Clock output terminal (3 to 48MHz) Not used
42	H_SUSPEND	O	LED drive signal output terminal Not used
43	X1	I	System clock input terminal (6MHz)
44	X2	O	System clock output terminal (6MHz)
45	D_GND	—	Ground terminal (for digital system)
46	H_PSW1_N	O	Power on/off control signal output terminal Not used
47	H_PSW2_N	O	Power on/off control signal output terminal Not used
48	D_D–	I/O	Two-way data bus of USB data (–) Not used
49	D_D+	I/O	Two-way data bus of USB data (+) Not used
50	H_D1–	I/O	Two-way data bus of USB data (–)
51	H_D1+	I/O	Two-way data bus of USB data (+)
52	H_D2–	I/O	Two-way data bus of USB data (–) Not used
53	H_D2+	I/O	Two-way data bus of USB data (+) Not used

Pin No.	Pin Name	I/O	Description
54	H_OC1_N	I	Over current detection signal input terminal
55	H_OC2_N	I	Over current detection signal input terminal
56	VCC2	—	Power supply terminal (+3.3V)
57	A_GND	—	Ground terminal (for analog system)
58	VREG	O	+3.3V power output terminal
59, 60	A0, A1	I	Address signal input from the CPU
61	NC	O	Not used
62	D_GND	—	Ground terminal (for digital system)
63, 64	D0, D1	I/O	Two-way data bus with the CPU, CPU/ATA interface IC, memory stick interface IC, display controller, 64MB flash memory and 128MB SD-RAM

• **MAIN BOARD IC5001 XC9572XL-10VQ44C-FL1 (DISPLAY CONTROLLER)**

Pin No.	Pin Name	I/O	Description
1	AI<1>	I	Address signal input from the CPU
2, 3	DI<15>, DI<14>	I/O	Two-way data bus with the CPU, CPU/ATA interface IC, memory stick interface IC, USB interface IC, 64MB flash memory and 128MB SD-RAM
4	GND	—	Ground terminal
5 to 8	DI<13> to DI<10>	I/O	Two-way data bus with the CPU, CPU/ATA interface IC, memory stick interface IC, USB interface IC, 64MB flash memory and 128MB SD-RAM
9	TDI	I	Not used
10	TMS	I	Not used
11	TCK	I	Not used
12 to 14	DI<9> to DI<7>	I/O	Two-way data bus with the CPU, CPU/ATA interface IC, memory stick interface IC, USB interface IC, 64MB flash memory and 128MB SD-RAM
15	VCC	—	Power supply terminal (+3.3V)
16	DI<6>	I/O	Two-way data bus with the CPU, CPU/ATA interface IC, memory stick interface IC, USB interface IC, 64MB flash memory and 128MB SD-RAM
17	GND	—	Ground terminal
18 to 23	DI<5> to DI<0>	I/O	Two-way data bus with the CPU, CPU/ATA interface IC, memory stick interface IC, USB interface IC, 64MB flash memory and 128MB SD-RAM
24	TDO	O	Not used
25	GND	—	Ground terminal
26	VCC	—	Power supply terminal (+3.3V)
27	NC	I/O	Not used
28	SCKO	O	Serial data transfer clock signal output to the fluorescent indicator tube and LED controller
29	SOO	O	Serial data output to the fluorescent indicator tube and LED controller
30	FL_DONI	I	Fluorescent indicator tube driver power supply on/off control signal input terminal “H”: fluorescent indicator tube on
31	LATO	O	Serial data latch pulse signal output to the fluorescent indicator tube and LED controller
32	RSTI	I	System reset signal input from the system controller
33	DACKI	I	Acknowledge signal input from the CPU
34	BKO	O	Blank control signal output to the fluorescent indicator tube
35	VCC	—	Power supply terminal (+3.3V)
36 to 39	NC	I/O	Not used
40	DREQO	O	DMA request signal output to the CPU
41	WEI	I	Write enable signal input from the CPU
42	CS6I	I	Chip select signal input from the CPU
43	MCKI	I	System clock signal input from the oscillator
44	AI<0>	I	Address signal input from the CPU

• SUB BOARD IC501 MB90F574APMT-G-LPN1(SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Function
1 to 4	NC	O	Not used
5	LINE_MUTING	O	Audio line muting on/off control signal output terminal
6	XSYS_RST	O	System reset signal output terminal "L": reset Not used
7	MAIN_RST	O	System reset signal output terminal
8	VCC	—	Power supply terminal (+5V)
9	XAMP_MUTING	O	Audio line muting on/off control signal output to the power amplifier "L": muting
10	E2CKO	O	Serial data transfer clock signal output to the FM/AM tuner pack
11	E2SIO	I/O	Two-way data bus with the FM/AM tuner pack
12	SUB_RXD/ FLS_SI	I	UART receive data input from the CPU "L" active
13	SUB_TXD/ FLS_SO	O	UART transmit data output to the CPU "L" active
14	BUS_ON	O	Bus on/off control signal output terminal "L" active Not used
15	BEEP	O	Beep sound drive signal output
16	TELATT	I	Telephone muting signal detection input terminal At input of "H", the signal is attenuated by 20 dB
17	UNISI	I	Serial data input terminal Not used
18	UNISO	O	Serial data output terminal Not used
19	UNICLK	O	Serial data transfer clock signal output terminal Not used
20	NC	O	Not used
21	DAC_SO	O	Serial data output to the D/A converter
22	DAC_CLK	O	Serial data transfer clock signal output to the D/A converter
23	XSIRCS_RST	O	System reset signal output terminal "L": reset Not used
24	SIRCS	I	Remote control signal input from the remote control receiver
28	RTC_SI	I	Serial data input from the real time clock
25	RTC_SO	O	Serial data output to the real time clock
26	RTC_CLK	O	Serial data transfer clock signal output to the real time clock
27	RTC CS	O	Chip select signal output to the real time clock
29	XDAC_CS	O	Chip select signal output to the D/A converter
30	XMS_DET0	I	Memory stick in/out detection signal input "L": memory stick is inserted
31	XS_MUTING	O	Audio line muting on/off control signal output to the electrical volume "L": muting
32	XUSB_DET	I	USB cable detection signal input terminal "L": USB cable is inserted Not used
33	VSS	—	Ground terminal
34	C	—	Connected to the external capacitor for power supply
35	NC	—	Not used
36	XMS_DET1	I	Memory stick in/out detection signal input "L": memory stick is inserted
37	FSW_SFT	O	Oscillation frequency shift control signal output terminal "L": 300kHz, "H": 330kHz
38	DVCC	—	Power supply terminal (+5V) (for the D/A converter)
39	DVSS	—	Ground terminal (for the D/A converter)
40, 41	NC	—	Not used
42	AVCC	—	Power supply terminal (+5V) (for the A/D converter)
43	AVRH	I	Reference voltage (+5V) input terminal (for the A/D converter)
44	AVRL	I	Reference voltage (0V) input terminal (for the A/D converter)
45	AVSS	—	Ground terminal (for the A/D converter)
46	KEYIN0	I	Key input terminal (A/D input)
47	TEMP	I	Connected to the temperature sensor

Pin No.	Pin Name	I/O	Function
48	RC_IN0	I	Key input from the rotary commander (A/D input) Not used
49	FP_I_DET	I	Over load detection signal input from the front panel open/close motor driver
50	QUALITY	I	Noise level detection signal input terminal
51	TR_I_DET	I	Over load detection signal input from the tray open/close motor driver
52	MPTH	I	Multi-path detection signal input terminal
53	VSM	I	FM and AM signal meter voltage detection input from the FM/AM tuner pack (A/D input)
54	VCC	—	Power supply terminal (+5V)
55	AMP_ON	O	Power amplifier drive signal output terminal "L": standby, "H": amplifier on
56	NS MASK	O	Noise detect port mask output terminal "H" active
57	DOOR_IND	O	LED drive signal output terminal
58	XTROPEN_END	I	Detection input from the tray open-end detect switch "L": active
59	XTRCLOSE_END	I	Detection input from the tray close-end detect switch "L": active
60	TRAY_LED	O	LED drive signal output terminal
61	TRAY_M+	O	Motor drive signal output to the tray open/close motor driver "L": tray open
62	TRAY_M–	O	Motor drive signal output to the tray open/close motor driver "L": tray close
63	VSS	—	Ground terminal
64	NC	—	Not used
65	FSW_IN	I	Oscillation frequency count terminal
66	NC	—	Not used
67	SH_WDT	I	Watch dog timer detection signal input terminal
68	XFAIL	I	Rewriting failure detection terminal "L": rewriting failure
69	XFLASH _W	I	FLASH writing mode detection terminal "L": flash writing mode
70	I2CSIO	I/O	Two-way data bus with the FM/AM tuner pack and electrical volume
71	I2CCKO	O	Serial data transfer clock signal output to the FM/AM tuner pack electrical volume
72	KEYACK	I	Input of acknowledge signal for the key entry Acknowledge signal is input to source and eject keys in the power off status On at input of "H"
73	X1A	O	Sub system clock output terminal (32.768kHz) Not used
74	X0A	I	Sub system clock input terminal (32.768kHz)
75	XDAVN	I	Data transmit completed detect signal input terminal
76	XRTC_INT	I	Alarm interrupt request signal input from the real time clock
77	BU IN	I	Back up power supply detect signal input terminal "L" is input at low voltage
78	XPDOWN	I	Power down detection signal input from the voltage detect "L": power down, normally: "H"
79	RC_IN1	I	Key input from the rotary commander (A/D input) Not used
80	XADON	O	A/D converter power control signal output When the KEYACK (pin ⑫) that controls reference voltage power for key A/D conversion input is active, "L" is output from this terminal to enable the input
81	XACC_IN	I	Accessory power supply detect signal input terminal "L": accessory on
82	FLS_ON	O	Power on/off control signal output to the LEVEL SHIFT
83	PW_ON	O	Audio system power supply on/off control signal output to the regulator "H": power on
84	XTEST_IN	I	For test terminal Normally fixed at "H"
85	RAMBU	I	Internal RAM reset detection signal input from the reset signal generator Input terminal to check that RAM data are not destroyed due to low voltage This checking is made within 100 msec after reset
86	HSTX	I	Hardware standby signal input terminal "L": hardware standby
87 to 89	MD2 to 0	I	Mode setting input terminal
90	XRST	I	System reset signal input from the reset signal generator "L": reset
91	VSS	—	Ground terminal

Pin No.	Pin Name	I/O	Function
92	X0	I	Main system clock input terminal (3.68MHz)
93	X1	O	Main system clock output terminal (3.68MHz)
94	VCC	—	Power supply terminal (+5V)
95	ILL IN	I	Illuminate line detect signal input for the auto dimmer control Dimmer is present at input of “L”
96	NC	—	Not used
97	FP_M–	O	Motor drive signal output to the front panel open/close motor driver “L”: front panel close
98	FP_M+	O	Motor drive signal output to the front panel open/close motor driver “L”: front panel open
99	XFPCLOSE_END	I	Detection input from the panel close-end detect switch “L”: active
100	XFPOPEN_END	I	Detection input from the panel open-end detect switch “L”: active
101	MOTOR_ON	O	Motor power on/off control signal output terminal
102	NC	—	Not used
103	OFFREC_LED	O	LED drive signal output terminal Not used
104, 105	DSTSEL0, DSTSEL1	I	Destination setting terminal
106	XNOSE_SW	I	Detects the removal of the attaching and removing type front panel block “L”: attaching
107	RE_RA	I	Rotary encoder dial pulse input from the rotary encoder (Right/A phase input)
108	RE_RB	I	Rotary encoder dial pulse input from the rotary encoder (Right/B phase input)
109	RE_LA	I	Rotary encoder dial pulse input from the rotary encoder (Left/A phase input)
110	RE_LB	I	Rotary encoder dial pulse input from the rotary encoder (Left/B phase input)
111	MS_LED	O	LED drive signal output terminal
112	FAN_ON	O	Fan motor drive signal output terminal “H”: active Not used
113	NC	—	Not used
114	TUNON	O	Tuner system power supply on/off control terminal
115	D5.0V_OK	I	Power supply voltage (D5V) detection terminal Not used
116	D3.3V_OK	I	Power supply voltage (D3.3V) detection terminal Not used
117	D1.8V_OK	I	Power supply voltage (D1.8V) detection terminal Not used
118	D1.9V_OK	I	Power supply voltage (D1.9V) detection terminal Not used
119	VSS	—	Ground terminal
120	MAIN_PON	O	Main system power supply on/off control signal output terminal “H”: power on

• DISPLAY BOARD IC903 RRX9000-0401R#01 (SIRCS CONTROLLER)

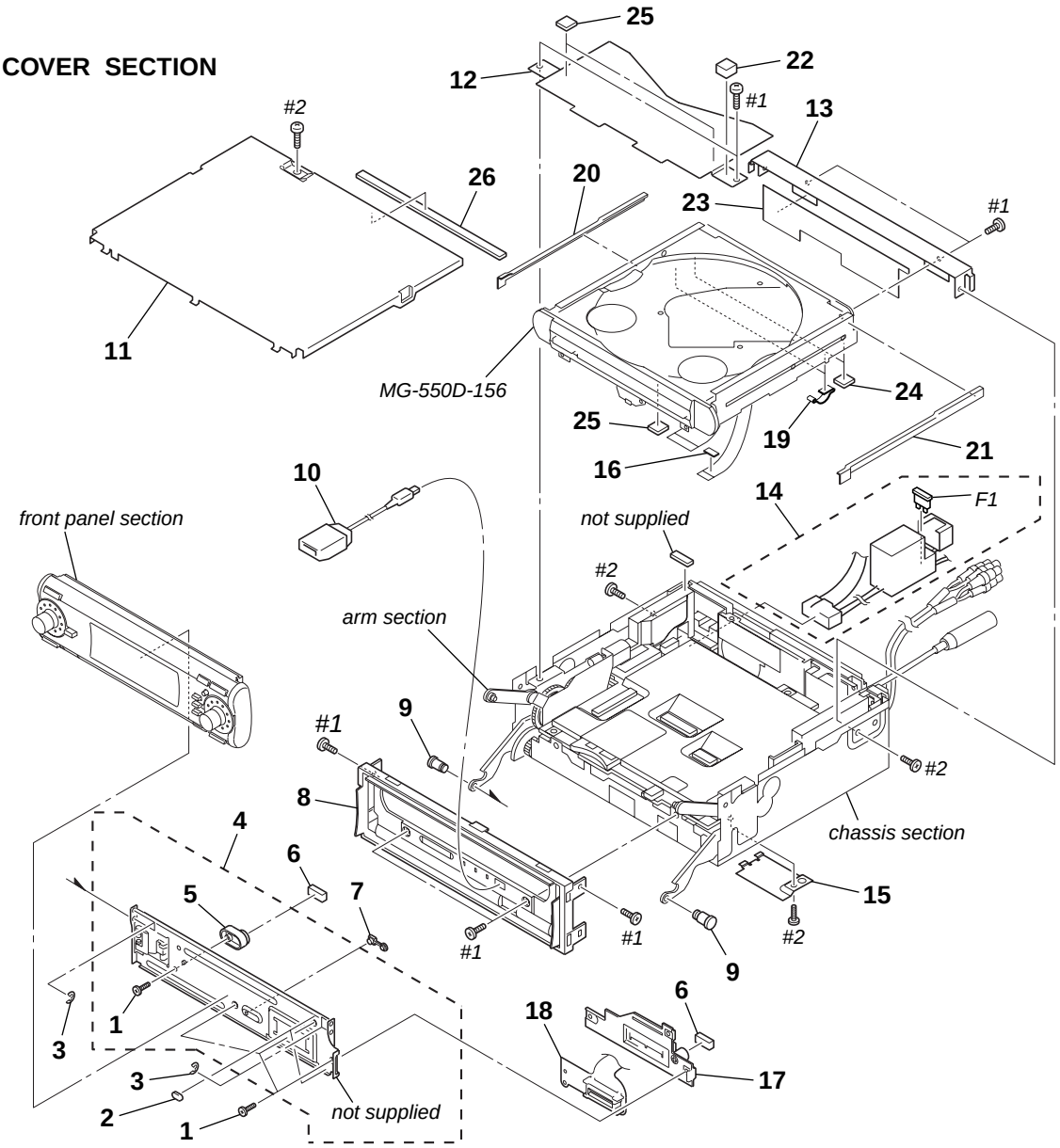
Pin No.	Pin Name	I/O	Description
1	VDD	—	Power supply terminal (+5V)
2	VSS	—	Ground terminal
3	XIN	I	System clock input terminal (4 MHz)
4	XOUT	O	System clock output terminal (4 MHz)
5	CNVSS	—	Ground terminal
6	$\overline{\text{RESET}}$	I	Reset signal input terminal "L": reset
7, 8	F0, F1	—	Not used
9	SIRCS IN	I	SIRCS signal input from the remote control receiver
10	G1/INT	—	Not used
11, 12	G2, G3	—	Not used
13 to 16	S3 to S0	—	Not used
17	D3/K	O	SIRCS signal output to the system controller
18 to 20	D2/C, D1, D0	—	Not used

SECTION 7
EXPLODED VIEWS

NOTE:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Accessories are given in the last of the electrical parts list.

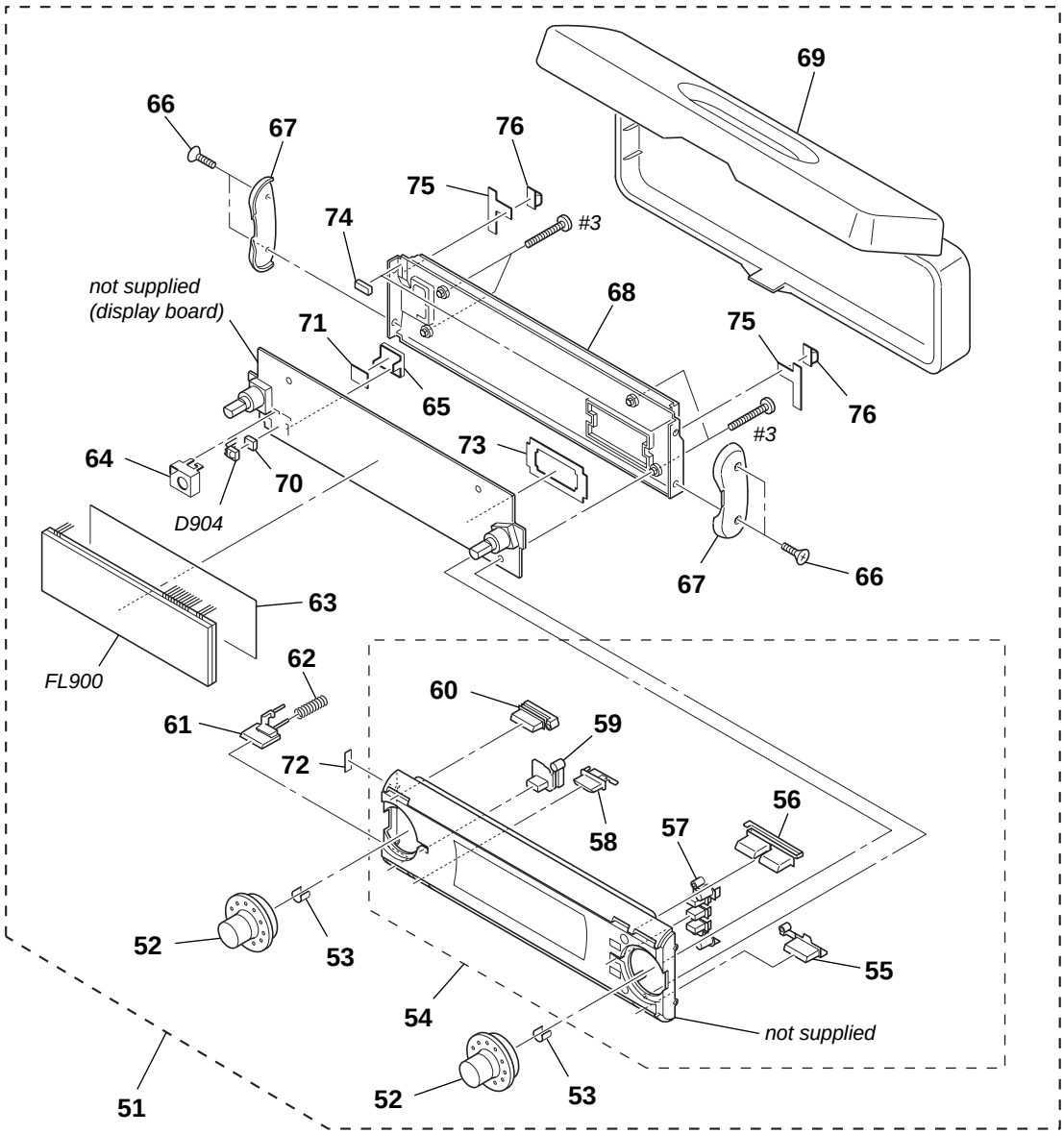
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

7-1. COVER SECTION



Ref. No.	Part No.	Description	Remark
1	3-230-416-01	SCREW	
2	3-226-653-11	PLATE (LCD), BLIND	
3	3-243-606-01	RING (PANEL), E	
4	X-3382-197-1	PANEL ASSY, BASE	
5	3-238-969-01	BRACKET (CUSHION)	
6	3-244-973-01	CUSHION (FB)	
7	3-237-001-01	BUTTON (RESET)	
8	X-3382-722-1	PANEL (CDDB) ASSY, SUB	
9	3-242-600-01	SHAFT (BASE PANEL , D)	
10	1-824-017-11	CORD, CONNECTION (DIGITAL I/O CABLE)	
11	3-236-999-11	COVER	
12	3-236-998-01	BRACKET (COVER)	
13	3-236-963-02	BRACKET (TRAY)	
14	1-790-926-71	CORD (WITH CONNECTOR) (POWER)	
15	3-238-886-01	COVER (CHASSIS)	
16	3-243-553-01	SHEET (FLEXIBLE)	
17	3-237-000-02	COVER (PANEL)	
18	1-761-522-11	MOUNTED FLEXIBLE PWB	
19	3-244-647-01	STICK FINGER	
20	3-244-639-01	SHEET (MECHANICAL-L)	
21	3-244-640-01	SHEET (MECHANICAL-R)	
22	3-244-641-12	SHEET (A), VIBRATION	
23	3-244-638-01	SHEET (BRACKET)	
24	3-244-641-22	SHEET (A), VIBRATION	
25	3-245-274-01	CUSHION (BRACKET)	
26	3-245-275-01	CUSHION (COVER)	
F1	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10A/32V)	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#2	7-685-790-01	SCREW +PTT 2.6X4 (S)	

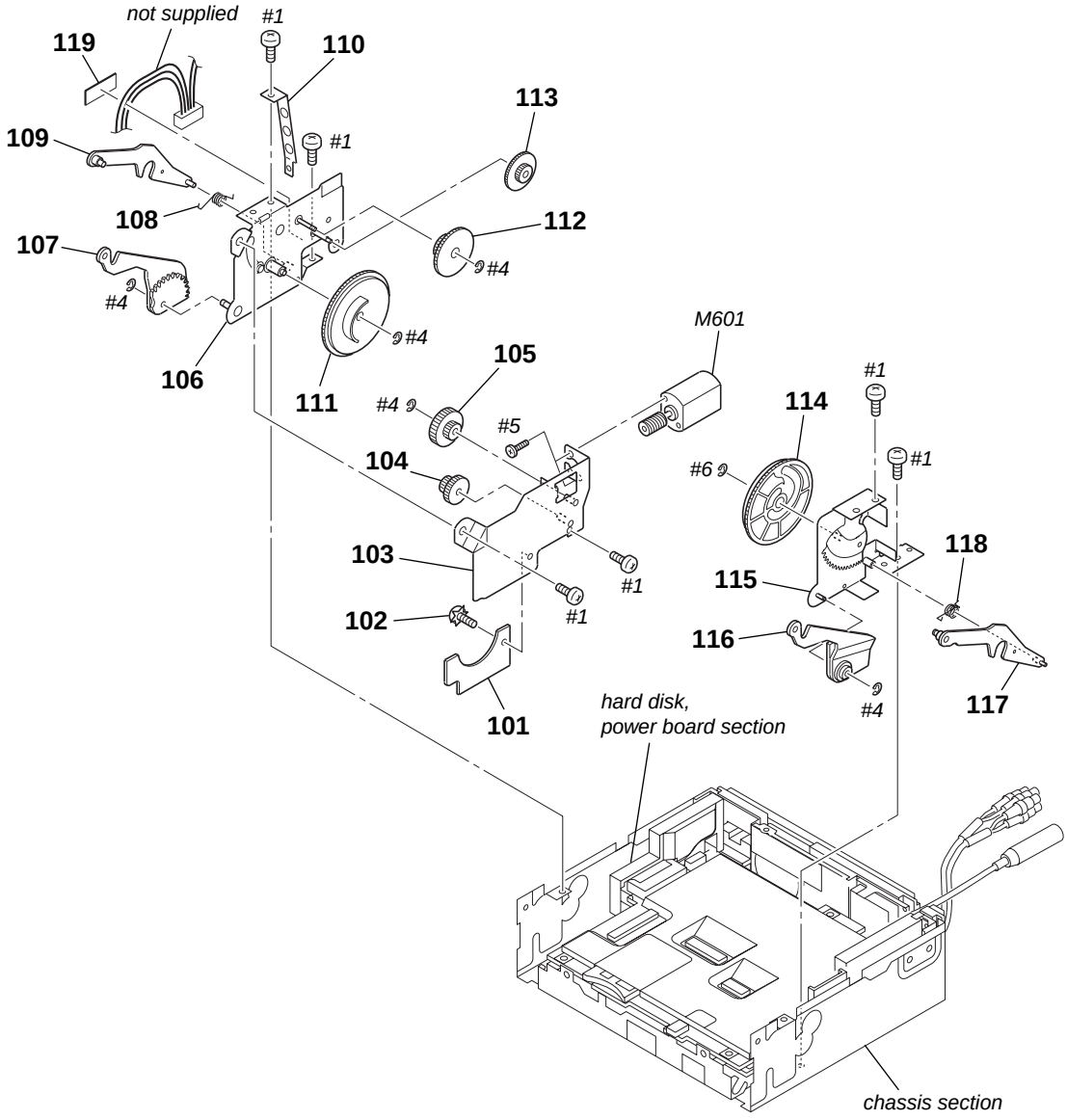
7-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	A-3315-822-A	PANEL COMPLETE ASSY	
52	X-3381-659-1	KNOB (VOL) ASSY	
53	2-127-723-01	SPRING (KNOB)	
54	X-3381-658-3	PANEL ASSY, FRONT	
55	3-236-827-01	BUTTON (REC) (● REC)	
56	3-236-821-01	BUTTON (EJECT/OPEN) (OPEN. CD ⏏)	
57	3-236-822-01	BUTTON (MENU) (M. F1. F2. F3. F)	
58	3-236-828-01	BUTTON (OFF)	
59	3-236-971-11	BUTTON (DSPL)	
60	3-236-826-01	BUTTON (SOURCE)	
61	3-236-968-11	BUTTON (RELEASE)	
62	3-242-616-01	SPRING (RELEASE)	
63	3-238-971-01	SPACER (FL)	
64	3-241-691-01	CASE (IR-T), SHIELD	
* 65	3-227-281-02	CASE (IR-B), SHIELD	

Ref. No.	Part No.	Description	Remark
66	3-238-973-01	SCREW, ORNAMENTAL	
67	3-237-002-11	PLATE, ORNAMENTAL	
68	3-236-993-01	PLATE, FRONT BACK	
69	X-3381-407-1	CASE ASSY (FOR FRONT PANEL)	
70	3-242-615-01	SPACER (IR)	
71	3-241-692-01	INSULATED PLATE (IR)	
72	3-245-440-01	SHEET (F LEFT)	
73	3-244-135-01	SHEET (CONNECTOR)	
74	3-244-979-01	CUSHION	
75	3-244-652-01	SHEET (BP), ARC	
76	3-244-954-01	SHIELD (BP)	
D904	8-719-083-14	DIODE RRX9000-0501 (REMOTE CONTROL RECEIVER)	
FL900	1-518-814-11	INDICATOR TUBE, FLUORESCENT	
#3	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT	

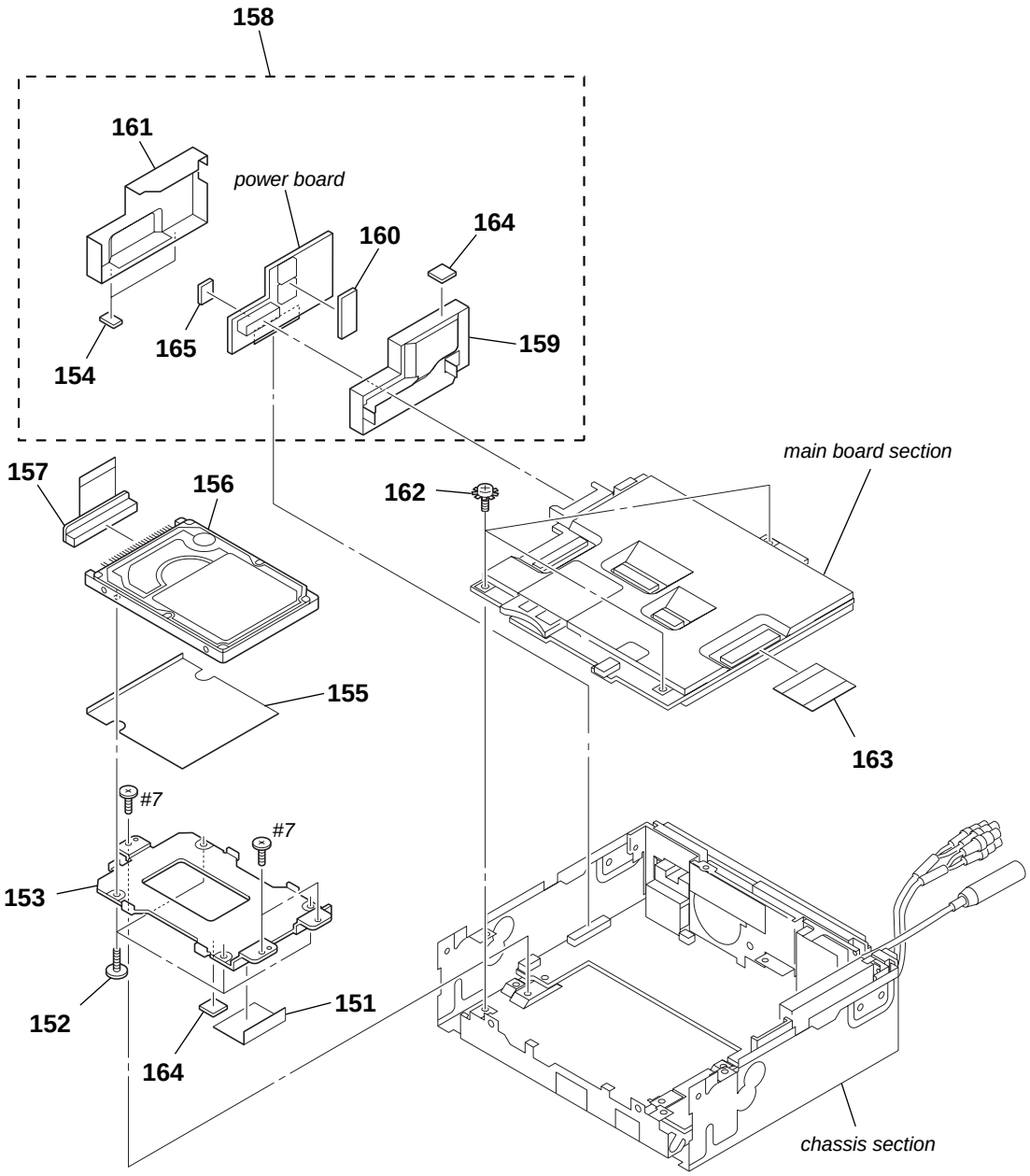
7-3. ARM SECTION



Ref. No.	Part No.	Description	Remark
101	A-3274-407-A	SWITCH BOARD, COMPLETE	
102	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
103	X-3381-368-1	BRACKET (SUB L) (RIVETING) ASSY	
104	3-237-003-01	GEAR (A)	
105	3-236-946-01	GEAR (WORM WHEEL)	
106	X-3381-359-1	BRACKET (MAIN. L) ASSY	
107	X-3381-599-1	ARM (D. L) ASSY	
108	3-243-374-01	SPRING (ARM. L)	
109	X-3381-364-1	ARM (U L) ASSY	
110	3-238-628-01	COVER (PROTECTION)	
111	3-236-947-01	GEAR (CAM L)	
112	3-237-005-01	GEAR (C)	

Ref. No.	Part No.	Description	Remark
113	3-237-004-01	GEAR (B)	
114	3-236-961-01	GEAR (CAM R)	
115	X-3381-360-2	BRACKET (MAIN R) ASSY	
116	X-3381-600-1	ARM (D. R) ASSY	
117	X-3381-365-1	ARM (U. R) ASSY	
118	3-243-373-01	SPRING (ARM. R)	
119	3-691-211-01	FELT	
M601	A-3315-622-A	MOTOR ASSY (FRONT PANEL OPEN/CLOSE)	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#4	7-624-104-04	RETAINING, RING E-2	
#5	7-627-553-28	SCREW, PRECISION +P 2X2.5	
#6	7-624-106-04	STOP RING 3.0, TYPE-E	

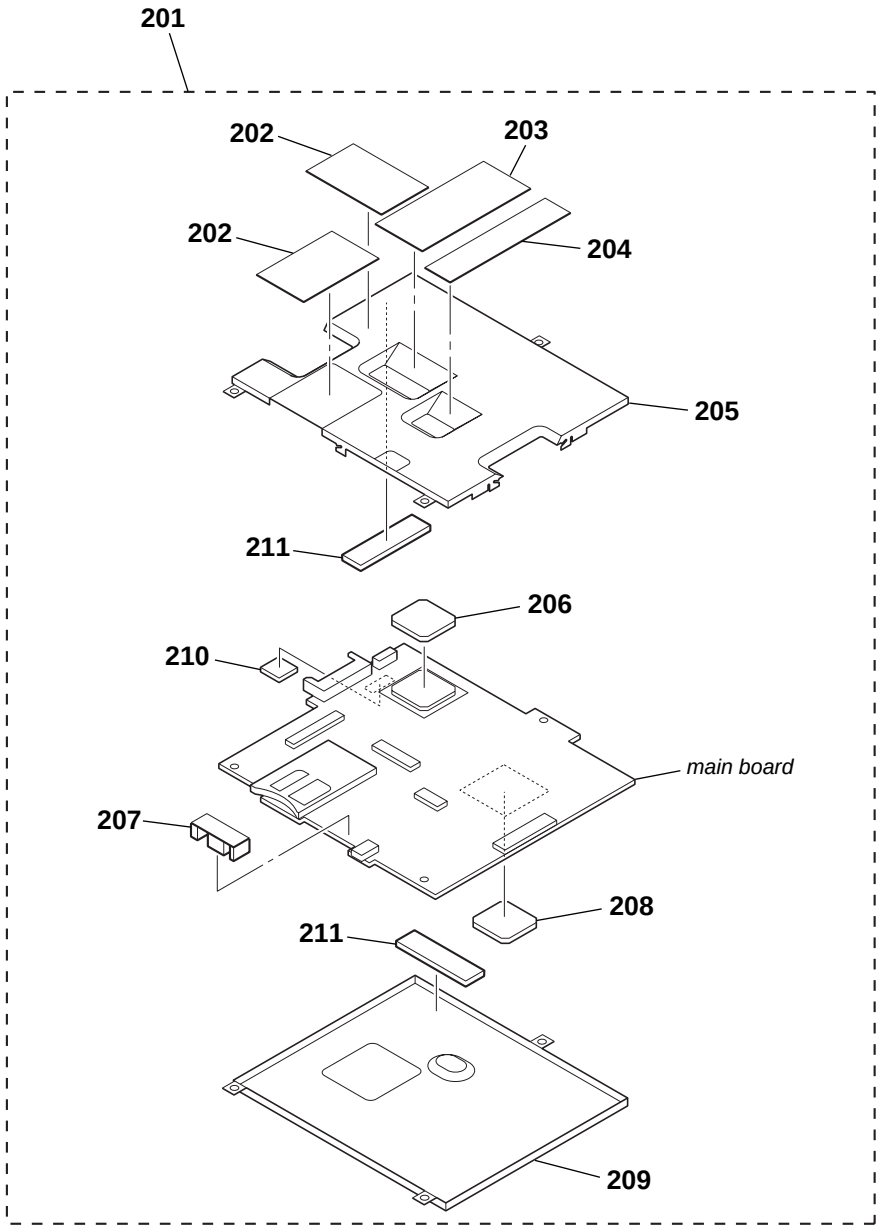
7-4. HARD DISK, POWER BOARD SECTION



Ref. No.	Part No.	Description	Remark
151	3-242-852-01	SHEET (FP), PROTECTION	
152	4-635-301-01	SCREW M3X4	
153	3-238-882-01	BRACKET (H)	
154	3-244-648-02	SHEET (B), VIBRATION	
155	3-242-833-01	SHEET (H), INSULATING	
156	1-477-584-11	UNIT, HARD DISK DRIVE (2.5inch)	
157	1-761-552-11	MOUNTED PWB (HDD CONNECTOR)	
158	A-3274-574-A	POWER BOARD, COMPLETE	

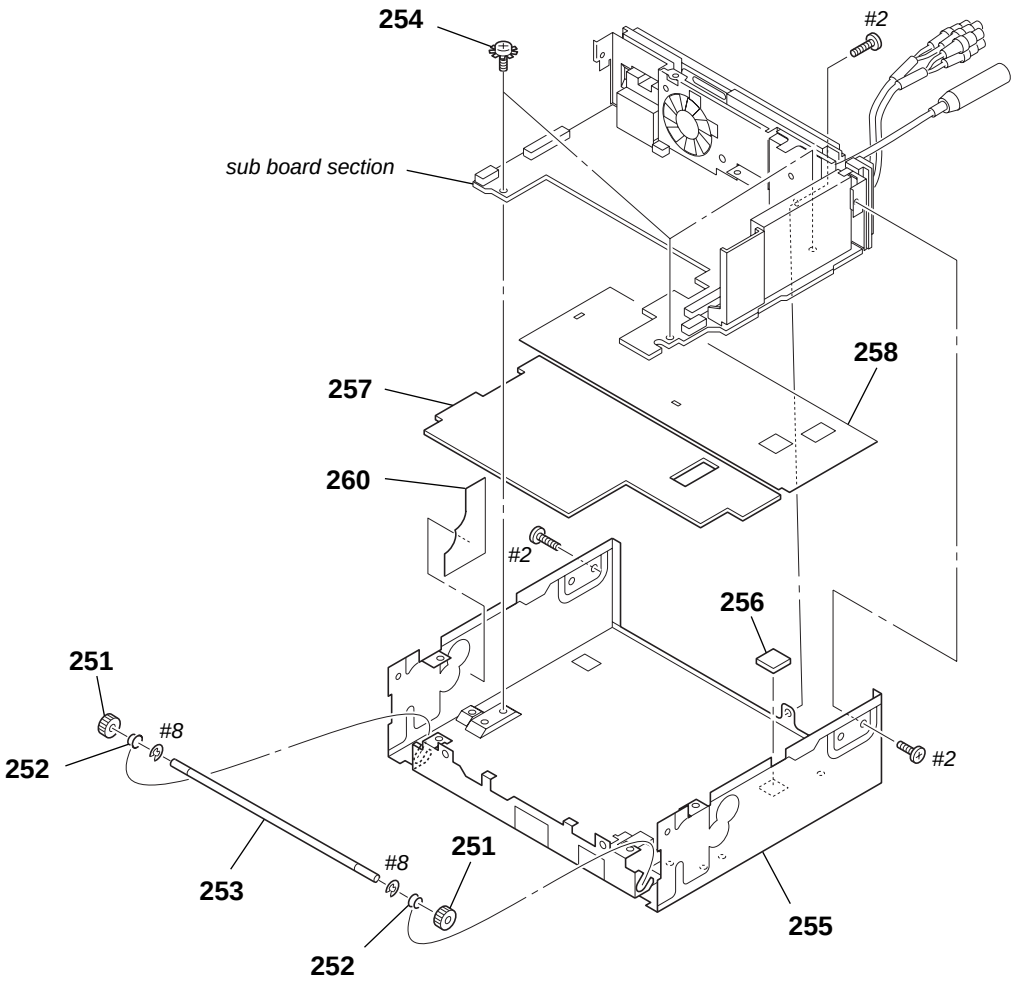
Ref. No.	Part No.	Description	Remark
159	3-238-888-01	SHIELD (DC1)	
160	3-242-212-01	SHEET (IC3), RADIATION	
161	3-238-889-01	SHIELD (DC2)	
162	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
163	1-824-053-11	CABLE, FLEXIBLE FLAT 50P	
164	3-244-641-32	SHEET (A), VIBRATION	
165	3-245-299-01	SHEET (DC), INSULATING	
#7	7-621-775-10	SCREW +B 2.6X4	

7-5. MAIN BOARD SECTION



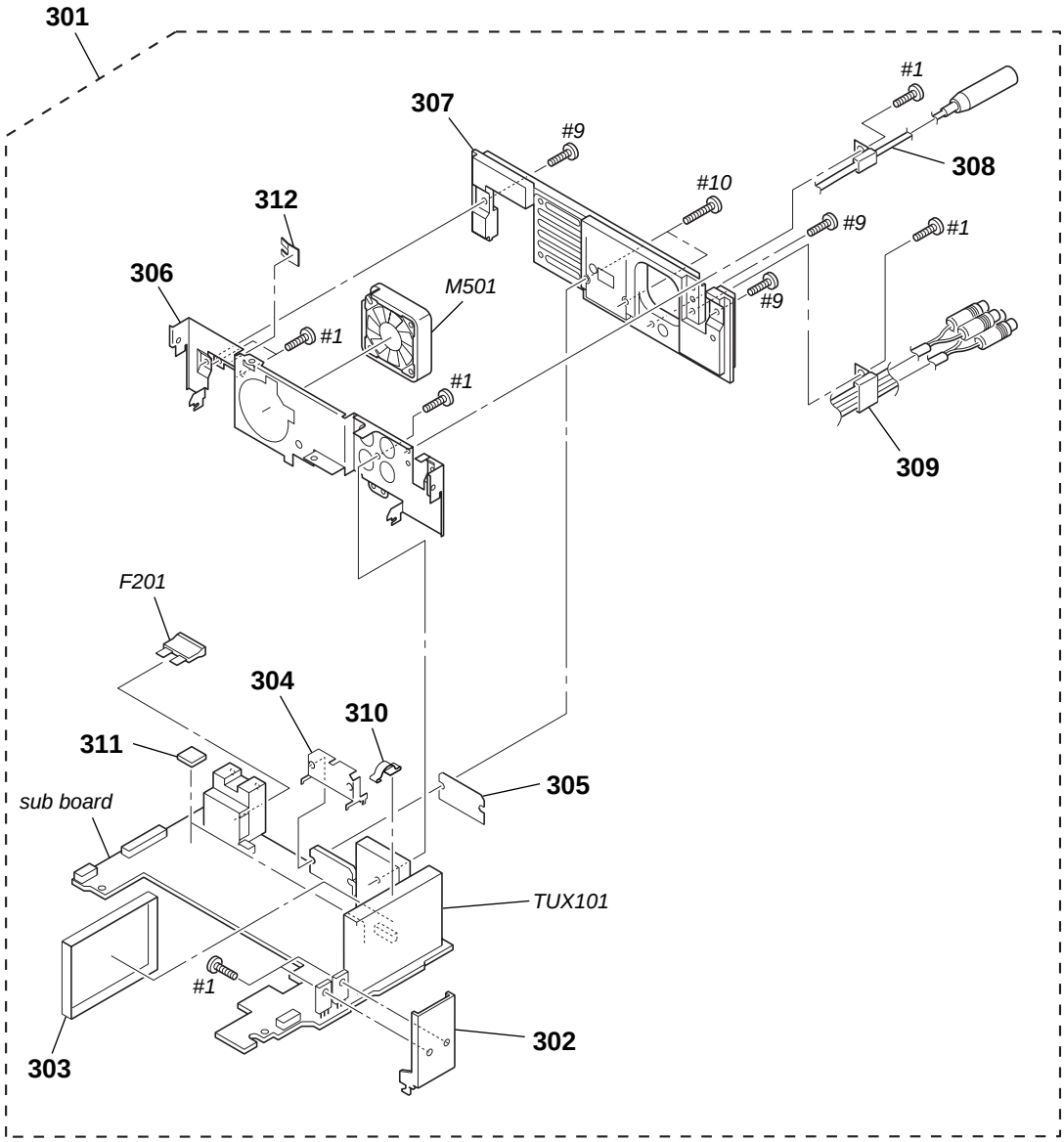
Ref. No.	Part No.	Description	Remark
201	A-3274-551-A	MAIN BOARD, COMPLETE	
202	3-242-832-01	SHEET (MS), INSULATING	
203	3-242-830-01	SHEET (40P), INSULATING	
204	3-242-831-01	SHEET (20P), INSULATING	
205	3-238-883-01	SHIELD (TOP)	
206	3-243-906-01	SHEET (IC4), RADIATION	
207	3-242-942-01	CUSHION (INDICATOR)	
208	3-242-210-01	SHEET (IC1), RADIATION	
209	3-238-884-01	SHIELD (BOTTOM)	
210	3-242-211-01	SHEET (IC2), RADIATION	
211	3-245-276-01	SHEET (SHIELD T)	

7-6. CHASSIS SECTION



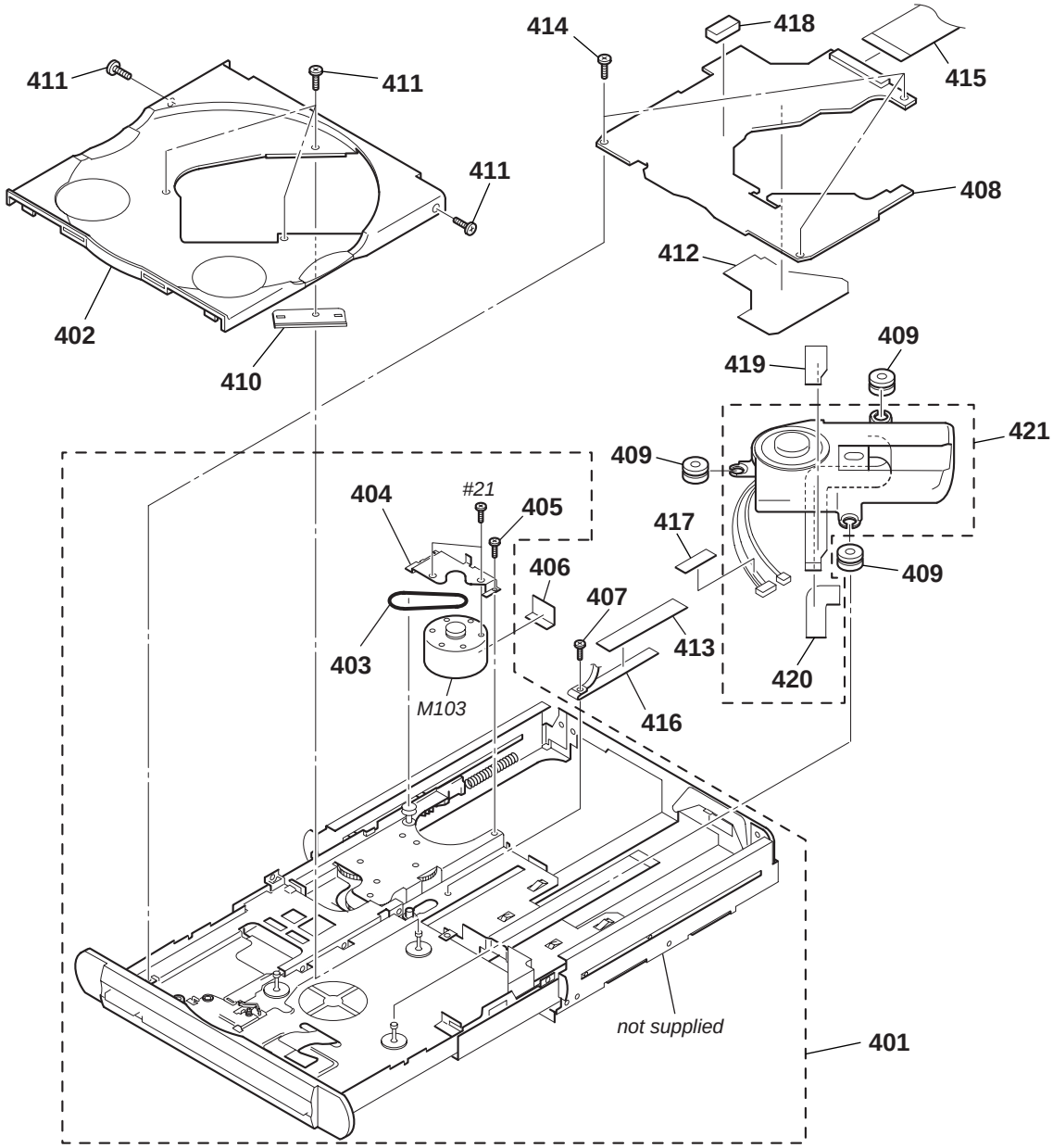
Ref. No.	Part No.	Description	Remark
251	3-230-493-01	GEAR (DRIVE SHAFT)	
252	3-230-444-01	GUIDE (DRIVE SHAFT)	
253	3-243-674-01	SHAFT, DRIVE	
254	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
255	X-3382-068-1	CHASSIS ASSY	
256	3-242-211-01	SHEET (IC2), RADIATION	
257	3-242-208-01	SHEET (S), DAMPER	
258	3-242-834-01	SHEET (S), INSULATING	
260	3-244-637-01	SHEET (CHASSIS)	
#2	7-685-790-01	SCREW +PTT 2.6X4 (S)	
#8	7-624-118-01	RING, RETAINING E-2.5	

7-7. SUB BOARD SECTION



Ref. No.	Part No.	Description	Remark
301	A-3274-573-A	SUB BOARD, COMPLETE	
302	3-238-885-01	HEAT SINK (R)	
* 303	3-048-454-01	SHIELD (COVER)	
* 304	3-019-565-01	BRACKET (IC)	
305	3-242-209-01	SHEET (PWIC), RADIATION	
306	3-238-881-01	CHASSIS, BACK	
307	3-238-887-01	HEAT SINK	
308	1-824-055-11	CORD, CONNECTION (ANT)	
309	1-824-052-11	CORD, CONNECTION (AUX) (AUX IN/SUB OUT)	
310	3-244-647-01	STICK FINGER	
311	3-244-641-02	SHEET (A), VIBRATION	
312	3-245-716-01	FINGER (B), STICK	
F201	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10A/32V)	
M501	1-763-834-11	FAN, DC	
TUX101	A-3220-812-A	TUNER UNIT (TUX-020)	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#9	7-685-793-09	SCREW +PTT 2.6X8 (S)	
#10	7-685-797-09	SCREW +PTT 2.6X16 (S)	

7-8. MECHANISM DECK SECTION (MG-550D-156)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
401	A-3315-439-C	MECHANICAL BLOCK (D) ASSY	
402	X-3381-034-4	TRAY (UD) ASSY	
403	3-234-336-01	BELT (L)	
404	3-234-348-01	BRACKET (MOTOR)	
405	4-639-357-21	SCREW (M1.7)	
406	3-244-139-01	CUSHION (MOTOR), SARANNET	
407	3-236-897-01	SCREW (+P M1.4 MECH)	
408	A-3340-218-A	SERVO BOARD, COMPLETE	
409	3-235-473-01	INSULATOR	
410	3-235-552-02	SPRING (LC-D), LEAF	
411	2-134-636-31	SCREW (M1.7X2.5)	
412	3-236-286-01	COVER (BOARD)	
413	3-241-004-02	CUSHION (FPC), SARANET	
414	4-628-646-11	SCREW (M2X3.5), TOOTHED LOCK (+) P	
415	1-683-084-11	D40P FLEXIBLE BOARD	
416	1-763-734-12	MOTOR FLEXIBLE BOARD	
417	3-378-434-01	CUSHION, SARANET	
418	3-243-340-01	CUSHION (PWB)	
419	3-237-654-01	COVER (OP-FPC)	
420	3-225-647-01	SHEET (MD), ADHESIVE	
⚠421	A-3013-977-A	OP ASSY (CDM-3021EBG)	
M103	X-3381-240-1	MOTOR ASSY, LE (TRAY OPEN/CLOSE)	
#21	7-627-000-07	SCREW, PRECISION +P 1.7X2 TYPE3	

SECTION 8
ELECTRICAL PARTS LIST

DISPLAY

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
		DISPLAY BOARD			
		**********			
*	3-227-281-02	CASE (IR-B), SHIELD			
	3-238-971-01	SPACER (FL)			
	3-241-691-01	CASE (IR-T), SHIELD			
	3-241-692-01	INSULATED PLATE (IR)			
	3-242-615-01	SPACER (IR)			
	3-244-135-01	SHEET (CONNECTOR)			
		< CAPACITOR >			
C901	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C902	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C903	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C904	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C905	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C906	1-135-852-21	ELECT CHIP	22uF	20%	6.3V
C907	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C908	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C909	1-135-852-21	ELECT CHIP	22uF	20%	6.3V
C910	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C911	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C912	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C913	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C914	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C915	1-135-972-21	ELECT CHIP	2.2uF	20%	50V
C918	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C919	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C920	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C921	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
		< CONNECTOR >			
CN901	1-778-183-11	PLUG, CONNECTOR 18P			
		< DIODE >			
D904	8-719-083-14	PHOTO DIODE RRX9000-0501 (REMOTE CONTROL RECEIVER)			
D905	8-719-420-90	DIODE MA8051-M-TX			
D906	8-719-404-50	DIODE MA111-TX			
D907	8-719-404-50	DIODE MA111-TX			
D921	8-719-080-04	LED CL-190UB-X-T (KEY ILLUMINATION)			
D922	8-719-080-04	LED CL-190UB-X-T (KEY ILLUMINATION)			
D923	8-719-080-04	LED CL-190UB-X-T (KEY ILLUMINATION)			
D924	8-719-080-04	LED CL-190UB-X-T (KEY ILLUMINATION)			
D925	8-719-080-04	LED CL-190UB-X-T (KEY ILLUMINATION)			
D926	8-719-080-04	LED CL-190UB-X-T (KEY ILLUMINATION)			
D927	8-719-080-04	LED CL-190UB-X-T (KEY ILLUMINATION)			
D928	8-719-080-04	LED CL-190UB-X-T (KEY ILLUMINATION)			
D929	8-719-080-04	LED CL-190UB-X-T (KEY ILLUMINATION)			
D930	8-719-080-04	LED CL-190UB-X-T (KEY ILLUMINATION)			
D931	8-719-080-04	LED CL-190UB-X-T (KEY ILLUMINATION)			
D932	8-719-080-04	LED CL-190UB-X-T (KEY ILLUMINATION)			
D933	8-719-080-04	LED CL-190UB-X-T (KEY ILLUMINATION)			
D934	8-719-080-04	LED CL-190UB-X-T (KEY ILLUMINATION)			
D935	8-719-080-04	LED CL-190UB-X-T (KEY ILLUMINATION)			
D936	8-719-080-04	LED CL-190UB-X-T (KEY ILLUMINATION)			
D937	8-719-065-17	DIODE 02DZ6.8-X (TPH3)			
D938	8-719-065-17	DIODE 02DZ6.8-X (TPH3)			
D939	8-719-065-17	DIODE 02DZ6.8-X (TPH3)			
D940	8-719-065-17	DIODE 02DZ6.8-X (TPH3)			
D941	8-719-065-17	DIODE 02DZ6.8-X (TPH3)			
D942	8-719-065-17	DIODE 02DZ6.8-X (TPH3)			
D943	8-719-065-17	DIODE 02DZ6.8-X (TPH3)			
D944	8-719-065-17	DIODE 02DZ6.8-X (TPH3)			
D945	8-719-065-17	DIODE 02DZ6.8-X (TPH3)			
D946	8-719-065-17	DIODE 02DZ6.8-X (TPH3)			
D947	8-719-080-04	LED CL-190UB-X-T (KEY ILLUMINATION)			
D950	8-719-080-04	LED CL-190UB-X-T (KEY ILLUMINATION)			
D951	8-719-080-04	LED CL-190UB-X-T (KEY ILLUMINATION)			
		< ROTARY ENCODER >			
ENC900	1-475-235-31	ENCODER, ROTARY (VOL, PUSH SOUND)			
ENC901	1-475-235-31	ENCODER, ROTARY (⏮ – +⏭, PUSH LIST)			
		< FERRITE BEAD >			
FB900	1-414-235-22	FERRITE	0uH		
FB901	1-414-235-22	FERRITE	0uH		
FB911	1-400-050-11	FERRITE	0uH		
FB912	1-400-050-11	FERRITE	0uH		
FB913	1-400-050-11	FERRITE	0uH		
FB914	1-400-050-11	FERRITE	0uH		
		< FLUORESCENT INDICATOR TUBE >			
FL900	1-518-814-11	INDICATOR TUBE, FLUORESCENT			

DISPLAY MAIN

Ref. No.	Part No.	Description			Remark
		< IC >			
IC901	8-759-268-33	IC SN74HC595ADBR			
IC902	8-759-830-18	IC RRX9000-0601#1			
IC903	8-759-830-17	IC RRX9000-0401R#01			
IC904	8-759-651-81	IC XC61FN4012MR			
		< SWITCH >			
LSW901	1-786-350-21	SWITCH, TACT (WITH LED) (● REC)			
		< TRANSISTOR >			
Q900	8-729-901-81	TRANSISTOR	2SC2412K-T-146-R		
Q901	8-729-901-81	TRANSISTOR	2SC2412K-T-146-R		
Q909	8-729-106-60	TRANSISTOR	2SB1132-T101-QR		
Q910	8-729-901-21	TRANSISTOR	DTC144EK-T146		
Q911	8-729-901-81	TRANSISTOR	2SC2412K-T-146-R		
		< RESISTOR >			
R902	1-216-047-00	RES-CHIP	820	5%	1/10W
R903	1-216-845-11	METAL CHIP	100K	5%	1/10W
R904	1-216-864-11	METAL CHIP	0	5%	1/10W
R905	1-216-047-00	RES-CHIP	820	5%	1/10W
R906	1-216-864-11	METAL CHIP	0	5%	1/10W
R907	1-218-879-11	RES-CHIP	22K	2%	1/16W
R908	1-218-875-11	RES-CHIP	15K	2%	1/16W
R910	1-218-871-11	RES-CHIP	10K	2%	1/16W
R911	1-218-867-11	RES-CHIP	6.8K	2%	1/16W
R912	1-218-863-11	RES-CHIP	4.7K	2%	1/16W
R913	1-218-859-11	RES-CHIP	3.3K	2%	1/16W
R914	1-218-855-11	RES-CHIP	2.2K	2%	1/16W
R915	1-218-851-11	RES-CHIP	1.5K	2%	1/16W
R916	1-216-037-00	METAL CHIP	330	5%	1/10W
R917	1-218-851-11	RES-CHIP	1.5K	2%	1/16W
R918	1-216-037-00	METAL CHIP	330	5%	1/10W
R919	1-218-847-11	RES-CHIP	1K	2%	1/16W
R920	1-216-850-11	METAL CHIP	270K	5%	1/10W
R921	1-216-845-11	METAL CHIP	100K	5%	1/10W
R922	1-219-286-11	RES-CHIP	680	2%	1/16W
R923	1-219-286-11	RES-CHIP	680	2%	1/16W
R924	1-216-857-11	METAL CHIP	1M	5%	1/10W
R925	1-216-817-11	METAL CHIP	470	5%	1/10W
R926	1-216-797-11	METAL CHIP	10	5%	1/10W
R927	1-216-821-11	METAL CHIP	1K	5%	1/10W
R929	1-216-845-11	METAL CHIP	100K	5%	1/10W
R930	1-216-845-11	METAL CHIP	100K	5%	1/10W
R931	1-216-845-11	METAL CHIP	100K	5%	1/10W
R932	1-216-845-11	METAL CHIP	100K	5%	1/10W
R933	1-216-845-11	METAL CHIP	100K	5%	1/10W
R934	1-216-845-11	METAL CHIP	100K	5%	1/10W
R935	1-219-286-11	RES-CHIP	680	2%	1/16W
R936	1-216-821-11	METAL CHIP	1K	5%	1/10W
R937	1-216-821-11	METAL CHIP	1K	5%	1/10W
R938	1-216-821-11	METAL CHIP	1K	5%	1/10W
R939	1-216-821-11	METAL CHIP	1K	5%	1/10W
R940	1-216-296-11	SHORT CHIP	0		
R943	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R944	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R945	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R946	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R947	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R948	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R949	1-216-797-11	METAL CHIP	10	5%	1/10W
R951	1-216-033-00	METAL CHIP	220	5%	1/10W
R952	1-216-033-00	METAL CHIP	220	5%	1/10W
R953	1-216-033-00	METAL CHIP	220	5%	1/10W
R954	1-216-033-00	METAL CHIP	220	5%	1/10W
R955	1-216-033-00	METAL CHIP	220	5%	1/10W
R956	1-216-033-00	METAL CHIP	220	5%	1/10W
R957	1-216-033-00	METAL CHIP	220	5%	1/10W
R958	1-216-033-00	METAL CHIP	220	5%	1/10W
R959	1-216-033-00	METAL CHIP	220	5%	1/10W
R982	1-216-047-00	RES-CHIP	820	5%	1/10W
R983	1-216-047-00	RES-CHIP	820	5%	1/10W
R989	1-216-295-11	SHORT CHIP	0		
R991	1-216-864-11	METAL CHIP	0	5%	1/10W
R992	1-216-809-11	METAL CHIP	100	5%	1/10W
R993	1-216-864-11	METAL CHIP	0	5%	1/10W
R994	1-216-864-11	METAL CHIP	0	5%	1/10W
R995	1-216-864-11	METAL CHIP	0	5%	1/10W
R996	1-216-833-11	METAL CHIP	10K	5%	1/10W
R997	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R998	1-216-045-00	METAL CHIP	680	5%	1/10W
R999	1-216-045-00	METAL CHIP	680	5%	1/10W
		< SWITCH >			
S901	1-771-884-11	SWITCH, TACTILE (WITH LED) (DSPL)			
S902	1-771-884-11	SWITCH, TACTILE (WITH LED) (FUNCTION, F)			
S903	1-771-884-11	SWITCH, TACTILE (WITH LED) (F1)			
S904	1-771-884-11	SWITCH, TACTILE (WITH LED) (F2)			
S905	1-771-884-11	SWITCH, TACTILE (WITH LED) (F3)			
S906	1-771-884-11	SWITCH, TACTILE (WITH LED) (MENU, M)			
S907	1-771-884-11	SWITCH, TACTILE (WITH LED) (CD ⏏)			
S908	1-771-884-11	SWITCH, TACTILE (WITH LED) (CLOSE, OPEN)			
S909	1-771-884-11	SWITCH, TACTILE (WITH LED) (SOURCE)			
S910	1-771-884-11	SWITCH, TACTILE (WITH LED) (OFF)			
		< VIBRATOR >			
X900	1-781-646-21	VIBRATOR, CERAMIC (4MHz)			
**********					
	A-3274-551-A	MAIN BOARD, COMPLETE			
		**********			
	3-238-883-01	SHIELD (TOP)			
	3-238-884-01	SHIELD (BOTTOM)			
	3-242-210-01	SHEET (IC1), RADIATION			
	3-242-211-01	SHEET (IC2), RADIATION			
	3-242-830-01	SHEET (40P), INSULATING			
	3-242-831-01	SHEET (20P), INSULATING			
	3-242-832-01	SHEET (MS), INSULATING			
	3-242-942-01	CUSHION (INDICATOR)			
	3-243-906-01	SHEET (IC4), RADIATION			
	3-245-276-01	SHEET (SHIELD T)			
		< TERMINAL >			
BN1057	1-694-592-31	TERMINAL			
BN1058	1-694-592-31	TERMINAL			
BN1063	1-694-592-31	TERMINAL			

Ref. No.	Part No.	Description			Remark
BN1065	1-694-592-31	TERMINAL			
BN1071	1-694-592-31	TERMINAL			
		< CAPACITOR >			
C371	1-104-852-11	TANTALUM CHIP	22uF	20%	10V
C372	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C373	1-104-852-11	TANTALUM CHIP	22uF	20%	10V
C374	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C375	1-104-852-11	TANTALUM CHIP	22uF	20%	10V
C376	1-104-852-11	TANTALUM CHIP	22uF	20%	10V
C381	1-127-692-11	CERAMIC CHIP	10uF	10%	6.3V
C391	1-127-692-11	CERAMIC CHIP	10uF	10%	6.3V
C411	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C412	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C413	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C451	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C452	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C651	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C652	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1000	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1001	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1002	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1003	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1004	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1005	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1006	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1007	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1008	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1009	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1010	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1011	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1012	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1013	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1015	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1016	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1017	1-119-750-11	TANTALUM CHIP	22uF	20%	6.3V
C1018	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1020	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1021	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1022	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C1023	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C1024	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1025	1-117-808-11	CERAMIC CHIP	10uF	10%	10V
C1026	1-117-808-11	CERAMIC CHIP	10uF	10%	10V
C1027	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1028	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1029	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1031	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1032	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1033	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1034	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1035	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1036	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1037	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1038	1-110-569-21	TANTALUM CHIP	47uF	20%	4V
C1043	1-119-750-11	TANTALUM CHIP	22uF	20%	6.3V
C1044	1-119-750-11	TANTALUM CHIP	22uF	20%	6.3V
C1047	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1050	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1051	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1055	1-119-750-11	TANTALUM CHIP	22uF	20%	6.3V
C1101	1-110-569-11	TANTALUM CHIP	47uF	20%	6.3V
C1108	1-117-808-11	CERAMIC CHIP	10uF	10%	10V
C1109	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2001	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2002	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2003	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2004	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2006	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2008	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2009	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2010	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2012	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2013	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2014	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2015	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2016	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2017	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C2018	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2020	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2021	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2022	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2023	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2025	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2026	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2027	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2028	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2029	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2030	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2031	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2032	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2034	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2035	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2036	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2037	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2038	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2039	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2040	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2041	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2042	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2043	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2044	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2045	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2046	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2047	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2048	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2049	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2050	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2051	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2052	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2053	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2054	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2055	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2056	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2057	1-162-923-11	CERAMIC CHIP	47PF	5%	50V

MAIN

Ref. No.	Part No.	Description			Remark
C2058	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2059	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2060	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2061	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2062	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2063	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2064	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2065	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2066	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C2067	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C2068	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C2069	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C2100	1-135-856-11	TANTALUM CHIP	100uF	20%	10V
C2101	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2102	1-119-750-11	TANTALUM CHIP	22uF	20%	6.3V
C2103	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2105	1-119-750-11	TANTALUM CHIP	22uF	20%	6.3V
C2106	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2107	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2108	1-135-856-11	TANTALUM CHIP	100uF	20%	10V
C2109	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2110	1-135-856-11	TANTALUM CHIP	100uF	20%	10V
C2120	1-135-856-11	TANTALUM CHIP	100uF	20%	10V
C2121	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2122	1-135-856-11	TANTALUM CHIP	100uF	20%	10V
C2123	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2124	1-135-856-11	TANTALUM CHIP	100uF	20%	10V
C2125	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3000	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3001	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3003	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C3004	1-117-808-11	CERAMIC CHIP	10uF	10%	10V
C3005	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3006	1-117-808-11	CERAMIC CHIP	10uF	10%	10V
C3007	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3008	1-117-808-11	CERAMIC CHIP	10uF	10%	10V
C3009	1-104-700-11	CERAMIC CHIP	0.027uF	10%	16V
C3010	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3011	1-164-739-11	CERAMIC CHIP	560PF	5%	50V
C3012	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3013	1-117-808-11	CERAMIC CHIP	10uF	10%	10V
C3014	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3015	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3016	1-110-569-11	TANTALUM CHIP	47uF	20%	6.3V
C3017	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3018	1-117-808-11	CERAMIC CHIP	10uF	10%	10V
C3020	1-117-808-11	CERAMIC CHIP	10uF	10%	10V
C3021	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3022	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3023	1-117-808-11	CERAMIC CHIP	10uF	10%	10V
C3024	1-117-808-11	CERAMIC CHIP	10uF	10%	10V
C3025	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3026	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3027	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3028	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3029	1-110-569-11	TANTALUM CHIP	47uF	20%	6.3V
C3030	1-117-808-11	CERAMIC CHIP	10uF	10%	10V
C3031	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3032	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3033	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3034	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3035	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3036	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3037	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3038	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3039	1-117-808-11	CERAMIC CHIP	10uF	10%	10V
C3040	1-117-808-11	CERAMIC CHIP	10uF	10%	10V
C3041	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3042	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3043	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3044	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3045	1-117-808-11	CERAMIC CHIP	10uF	10%	10V
C3046	1-117-808-11	CERAMIC CHIP	10uF	10%	10V
C3047	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3048	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3050	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3051	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3052	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C3062	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3063	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3064	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3065	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3066	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3067	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3068	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3069	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3070	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3071	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3073	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3074	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3075	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3076	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3077	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4001	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4002	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4003	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4004	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4005	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C4006	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C4007	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4008	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4009	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C4010	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C4011	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4012	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4013	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4014	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4015	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4016	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4017	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4018	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4019	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4020	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4021	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4022	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

Ref. No.	Part No.	Description			Remark
C4023	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4025	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4026	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4028	1-119-750-11	TANTALUM CHIP	22uF	20%	6.3V
C4029	1-119-750-11	TANTALUM CHIP	22uF	20%	6.3V
C4030	1-119-750-11	TANTALUM CHIP	22uF	20%	6.3V
C4031	1-119-750-11	TANTALUM CHIP	22uF	20%	6.3V
C4032	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C4033	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C4107	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C4108	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C4201	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4202	1-104-851-11	TANTALUM CHIP	10uF	20%	10V
C4203	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C4301	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4303	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C4304	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C4305	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4306	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4307	1-117-808-11	CERAMIC CHIP	10uF	10%	10V
C4308	1-119-750-11	TANTALUM CHIP	22uF	20%	6.3V
C4310	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4311	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C4312	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4315	1-113-642-11	TANTALUM CHIP	47uF	20%	10V
C5001	1-117-808-11	CERAMIC CHIP	10uF	10%	10V
C5002	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5003	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C5004	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5005	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5006	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< CONNECTOR >			
* CN1010	1-779-056-21	PIN, CONNECTOR (PC BOARD) 5P			
* CN2001	1-785-613-11	CONNECTOR, FFC/FPC 50P			
CN2002	1-779-522-21	CONNECTOR, FFC (ZIF) 40P			
CN2003	1-816-543-11	CONNECTOR, FFC/FPC (ZIF) 20P			
CN3001	1-816-500-11	CONNECTOR, BOARD TO BOARD 22P			
* CN3002	1-785-613-11	CONNECTOR, FFC/FPC 50P			
CN4101	1-785-804-21	CONNECTOR, MINIATURE (I/O)			
CN4201	1-816-510-11	CONNECTOR, MS (PUSH.PUSH) (MEMORY STICK)			
		< DIODE >			
D411	8-719-820-05	DIODE MA152WA-TX			
D2000	8-719-038-03	LED CL-190Y-CD-T (HDD)			
D2001	8-719-404-50	DIODE MA111-TX			
D4201	8-719-038-03	LED CL-190Y-CD-T (MEMORY STICK)			
D4202	8-719-038-03	LED CL-190Y-CD-T (I/O)			
D4203	8-719-079-10	LED CL-220UB-X-TS (MEMORY STICK SLOT ILLUMINATION)			
D4204	8-719-079-10	LED CL-220UB-X-TS (MEMORY STICK SLOT ILLUMINATION)			
D4205	8-719-404-50	DIODE MA111-TX			
D4206	8-719-404-50	DIODE MA111-TX			

Ref. No.	Part No.	Description		Remark
		< FERRITE BEAD >		
FB1001	1-414-595-11	FERRITE	0uH	
FB1002	1-414-595-11	FERRITE	0uH	
FB1003	1-414-595-11	FERRITE	0uH	
FB1005	1-469-835-21	FERRITE	0uH	
FB1006	1-469-835-21	FERRITE	0uH	
FB1007	1-469-835-21	FERRITE	0uH	
FB1026	1-414-228-11	FERRITE	0uH	
FB1064	1-414-921-11	FERRITE	0uH	
FB2002	1-469-094-21	FERRITE	0uH	
FB2003	1-469-094-21	FERRITE	0uH	
FB2004	1-469-094-21	FERRITE	0uH	
FB2005	1-469-094-21	FERRITE	0uH	
FB2006	1-469-094-21	FERRITE	0uH	
FB2007	1-469-094-21	FERRITE	0uH	
FB2008	1-469-094-21	FERRITE	0uH	
FB2009	1-469-094-21	FERRITE	0uH	
FB2010	1-469-094-21	FERRITE	0uH	
FB2011	1-469-094-21	FERRITE	0uH	
FB2012	1-469-094-21	FERRITE	0uH	
FB2013	1-469-094-21	FERRITE	0uH	
FB2014	1-469-094-21	FERRITE	0uH	
FB2015	1-469-094-21	FERRITE	0uH	
FB2016	1-469-094-21	FERRITE	0uH	
FB2017	1-469-094-21	FERRITE	0uH	
FB2019	1-469-094-21	FERRITE	0uH	
FB2020	1-469-094-21	FERRITE	0uH	
FB2021	1-469-094-21	FERRITE	0uH	
FB2022	1-469-094-21	FERRITE	0uH	
FB2023	1-469-094-21	FERRITE	0uH	
FB2024	1-469-094-21	FERRITE	0uH	
FB2025	1-469-094-21	FERRITE	0uH	
FB2026	1-469-094-21	FERRITE	0uH	
FB2027	1-469-094-21	FERRITE	0uH	
FB2028	1-469-094-21	FERRITE	0uH	
FB2029	1-469-094-21	FERRITE	0uH	
FB2102	1-400-050-11	FERRITE	0uH	
FB2103	1-400-050-11	FERRITE	0uH	
FB2104	1-400-050-11	FERRITE	0uH	
FB3000	1-400-050-11	FERRITE	0uH	
FB3001	1-400-050-11	FERRITE	0uH	
FB3002	1-400-050-11	FERRITE	0uH	
FB3004	1-414-228-11	FERRITE	0uH	
FB3005	1-400-050-11	FERRITE	0uH	
FB3007	1-400-050-11	FERRITE	0uH	
FB3009	1-400-050-11	FERRITE	0uH	
FB3010	1-400-050-11	FERRITE	0uH	
FB3011	1-400-050-11	FERRITE	0uH	
FB3041	1-414-921-11	FERRITE	0uH	
FB3042	1-414-921-11	FERRITE	0uH	
FB3043	1-414-921-11	FERRITE	0uH	
FB3044	1-414-921-11	FERRITE	0uH	
FB3045	1-414-921-11	FERRITE	0uH	
FB3046	1-414-921-11	FERRITE	0uH	
FB3047	1-414-921-11	FERRITE	0uH	
FB3048	1-469-836-21	FERRITE	0uH	
FB4001	1-400-050-11	FERRITE	0uH	

MAIN

Ref. No.	Part No.	Description		Remark
FB4002	1-400-050-11	FERRITE	0uH	
FB4301	1-400-050-11	FERRITE	0uH	
FB5001	1-414-228-11	FERRITE	0uH	
FB5002	1-469-094-21	FERRITE	0uH	
FB5003	1-469-094-21	FERRITE	0uH	
FB5004	1-469-094-21	FERRITE	0uH	
FB5005	1-469-094-21	FERRITE	0uH	
FB5006	1-469-094-21	FERRITE	0uH	
FB5007	1-469-094-21	FERRITE	0uH	
FB5008	1-469-094-21	FERRITE	0uH	
		< FILTER >		
FL1000	1-400-259-21	FILTER, EMI		
FL1001	1-400-259-21	FILTER, EMI		
FL1002	1-400-259-21	FILTER, EMI		
FL2000	1-400-259-21	FILTER, EMI		
FL2001	1-400-267-21	FILTER, EMI		
FL2101	1-400-259-21	FILTER, EMI		
FL2105	1-400-267-21	FILTER, EMI		
FL3002	1-400-267-21	FILTER, EMI		
FL3003	1-400-267-21	FILTER, EMI		
FL4000	1-234-561-21	FILTER, EMI REMOVAL (SMD)		
FL4001	1-234-561-21	FILTER, EMI REMOVAL (SMD)		
FL4002	1-234-561-21	FILTER, EMI REMOVAL (SMD)		
FL4003	1-234-561-21	FILTER, EMI REMOVAL (SMD)		
FL5001	1-234-561-21	FILTER, EMI REMOVAL (SMD)		
FL5002	1-234-561-21	FILTER, EMI REMOVAL (SMD)		
FL5003	1-234-561-21	FILTER, EMI REMOVAL (SMD)		
FL5004	1-234-561-21	FILTER, EMI REMOVAL (SMD)		
		< IC >		
IC371	8-759-825-13	IC PCM1748E/2K		
IC411	8-759-527-33	IC LB1930M-TLM		
IC412	8-759-075-66	IC TA75S01F (TE85R)		
IC601	8-759-497-44	IC TC7WH125FU (TE12R)		
IC602	8-759-688-12	IC TC74VHCT125AFT (EL)		
IC1010	8-759-657-93	IC HD6417709AF133		
IC1020	6-702-270-01	IC K4S281632D-TI75		
IC1030	6-801-643-01	IC MBM29DL640E-90TN-1HDU		
IC2001	6-701-120-01	IC W981616BH-7-EL10		
* IC2003	6-700-928-01	IC CXD9533Q		
IC3000	6-800-664-01	IC XC9536XL-5VQ44C-HB01		
* IC3001	6-700-927-01	IC TPS77818PWPR		
@ IC3003	6-700-237-01	IC TMS320C6211GFN167		
IC3005	8-759-653-54	IC XC62GR3312MR		
@ IC4001	8-752-413-97	IC CXD1859AGA		
IC4002	8-752-405-25	IC CXK2000EN-T2		
* IC4301	6-701-101-01	IC ISP1161BD-118		
IC5001	6-801-645-01	IC XC9572XL-10VQ44C-FL11		
IC5002	6-702-275-01	IC LTC1799CS5#TR		
		< COIL >		
L351	1-412-002-31	INDUCTOR	4.7uH	
L352	1-412-002-31	INDUCTOR	4.7uH	
L4201	1-469-525-11	INDUCTOR	10uH	

Ref. No.	Part No.	Description			Remark
		< THERMISTOR >			
PS4100	1-533-817-21	THERMISTOR			
		< TRANSISTOR >			
Q3000	8-729-027-58	TRANSISTOR	DTC143ZKA-T146		
Q4201	8-729-051-23	TRANSISTOR	2SA2018TL		
Q4202	8-729-027-58	TRANSISTOR	DTC143ZKA-T146		
Q4203	8-729-027-58	TRANSISTOR	DTC143ZKA-T146		
Q4204	8-729-027-58	TRANSISTOR	DTC143ZKA-T146		
		< RESISTOR/FERRITE BEAD >			
R331	1-216-295-11	SHORT CHIP	0		
R371	1-216-864-11	METAL CHIP	0	5%	1/10W
R372	1-216-864-11	METAL CHIP	0	5%	1/10W
R373	1-216-864-11	METAL CHIP	0	5%	1/10W
R374	1-216-864-11	METAL CHIP	0	5%	1/10W
R375	1-216-864-11	METAL CHIP	0	5%	1/10W
R401	1-218-236-11	RES-CHIP	1	10%	1/4W
R402	1-218-236-11	RES-CHIP	1	10%	1/4W
R403	1-216-833-11	METAL CHIP	10K	5%	1/10W
R404	1-216-845-11	METAL CHIP	100K	5%	1/10W
R405	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R406	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R653	1-216-864-11	METAL CHIP	0	5%	1/10W
R654	1-216-841-11	METAL CHIP	47K	5%	1/10W
R655	1-216-864-11	METAL CHIP	0	5%	1/10W
R656	1-216-841-11	METAL CHIP	47K	5%	1/10W
R657	1-216-841-11	METAL CHIP	47K	5%	1/10W
R658	1-216-864-11	METAL CHIP	0	5%	1/10W
R659	1-216-864-11	METAL CHIP	0	5%	1/10W
R1000	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1001	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1002	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1003	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1004	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1005	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1007	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1008	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1009	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1010	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1011	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1012	1-216-803-11	METAL CHIP	33	5%	1/10W
R1013	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1014	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1015	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1016	1-216-864-11	METAL CHIP	0	5%	1/10W
R1017	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1019	1-216-864-11	METAL CHIP	0	5%	1/10W
R1020	1-216-864-11	METAL CHIP	0	5%	1/10W
R1022	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1024	1-216-803-11	METAL CHIP	33	5%	1/10W
R1025	1-216-864-11	METAL CHIP	0	5%	1/10W
R1033	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1034	1-216-864-11	METAL CHIP	0	5%	1/10W
R1035	1-216-864-11	METAL CHIP	0	5%	1/10W
R1037	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1038	1-216-845-11	METAL CHIP	100K	5%	1/10W

@ Replacement of IC3003 and IC4001 used in this set requires a special tool.

Ref. No.	Part No.	Description			Remark
R1050	1-216-864-11	METAL CHIP	0	5%	1/10W
R1051	1-216-864-11	METAL CHIP	0	5%	1/10W
R1052	1-216-864-11	METAL CHIP	0	5%	1/10W
R1053	1-216-864-11	METAL CHIP	0	5%	1/10W
R1054	1-216-864-11	METAL CHIP	0	5%	1/10W
R1062	1-216-864-11	METAL CHIP	0	5%	1/10W
R1063	1-216-864-11	METAL CHIP	0	5%	1/10W
R1065	1-216-864-11	METAL CHIP	0	5%	1/10W
R1068	1-216-864-11	METAL CHIP	0	5%	1/10W
R1069	1-216-864-11	METAL CHIP	0	5%	1/10W
R1070	1-216-864-11	METAL CHIP	0	5%	1/10W
R1071	1-216-864-11	METAL CHIP	0	5%	1/10W
R1072	1-216-864-11	METAL CHIP	0	5%	1/10W
R1073	1-216-864-11	METAL CHIP	0	5%	1/10W
R1074	1-216-864-11	METAL CHIP	0	5%	1/10W
R1076	1-216-864-11	METAL CHIP	0	5%	1/10W
R1077	1-216-864-11	METAL CHIP	0	5%	1/10W
R1078	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1080	1-216-864-11	METAL CHIP	0	5%	1/10W
R1081	1-216-864-11	METAL CHIP	0	5%	1/10W
R1082	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1083	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1084	1-216-864-11	METAL CHIP	0	5%	1/10W
R1085	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1086	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1087	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1088	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1089	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1101	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1102	1-216-803-11	METAL CHIP	33	5%	1/10W
R1103	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1104	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1106	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1107	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1110	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1111	1-216-801-11	METAL CHIP	22	5%	1/10W
R1112	1-216-801-11	METAL CHIP	22	5%	1/10W
R1113	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1114	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1115	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1116	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1118	1-216-864-11	METAL CHIP	0	5%	1/10W
R2002	1-216-864-11	METAL CHIP	0	5%	1/10W
R2003	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2004	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2005	1-216-864-11	METAL CHIP	0	5%	1/10W
R2009	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2010	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2011	1-216-801-11	METAL CHIP	22	5%	1/10W
R2012	1-216-801-11	METAL CHIP	22	5%	1/10W
R2013	1-216-801-11	METAL CHIP	22	5%	1/10W
R2014	1-216-801-11	METAL CHIP	22	5%	1/10W
R2015	1-216-801-11	METAL CHIP	22	5%	1/10W
R2016	1-216-801-11	METAL CHIP	22	5%	1/10W
R2017	1-216-801-11	METAL CHIP	22	5%	1/10W
R2018	1-216-801-11	METAL CHIP	22	5%	1/10W
R2019	1-216-801-11	METAL CHIP	22	5%	1/10W
R2020	1-216-801-11	METAL CHIP	22	5%	1/10W
R2021	1-216-801-11	METAL CHIP	22	5%	1/10W
R2022	1-216-801-11	METAL CHIP	22	5%	1/10W
R2023	1-216-801-11	METAL CHIP	22	5%	1/10W
R2024	1-216-801-11	METAL CHIP	22	5%	1/10W
R2025	1-216-801-11	METAL CHIP	22	5%	1/10W
R2026	1-216-801-11	METAL CHIP	22	5%	1/10W
R2027	1-216-801-11	METAL CHIP	22	5%	1/10W
R2028	1-216-801-11	METAL CHIP	22	5%	1/10W
R2029	1-216-801-11	METAL CHIP	22	5%	1/10W
R2030	1-216-801-11	METAL CHIP	22	5%	1/10W
R2031	1-216-801-11	METAL CHIP	22	5%	1/10W
R2032	1-216-801-11	METAL CHIP	22	5%	1/10W
R2033	1-216-801-11	METAL CHIP	22	5%	1/10W
R2034	1-216-801-11	METAL CHIP	22	5%	1/10W
R2035	1-216-801-11	METAL CHIP	22	5%	1/10W
R2036	1-216-801-11	METAL CHIP	22	5%	1/10W
R2037	1-216-801-11	METAL CHIP	22	5%	1/10W
R2038	1-216-801-11	METAL CHIP	22	5%	1/10W
R2039	1-216-801-11	METAL CHIP	22	5%	1/10W
R2040	1-216-801-11	METAL CHIP	22	5%	1/10W
R2041	1-216-801-11	METAL CHIP	22	5%	1/10W
R2042	1-216-801-11	METAL CHIP	22	5%	1/10W
R2043	1-216-808-11	METAL CHIP	82	5%	1/10W
R2044	1-216-808-11	METAL CHIP	82	5%	1/10W
R2045	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R2046	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R2047	1-216-808-11	METAL CHIP	82	5%	1/10W
R2048	1-216-808-11	METAL CHIP	82	5%	1/10W
R2049	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2050	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2051	1-216-808-11	METAL CHIP	82	5%	1/10W
R2052	1-216-808-11	METAL CHIP	82	5%	1/10W
R2053	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2054	1-216-801-11	METAL CHIP	22	5%	1/10W
R2055	1-216-801-11	METAL CHIP	22	5%	1/10W
R2056	1-216-801-11	METAL CHIP	22	5%	1/10W
R2057	1-216-801-11	METAL CHIP	22	5%	1/10W
R2058	1-216-801-11	METAL CHIP	22	5%	1/10W
R2059	1-216-801-11	METAL CHIP	22	5%	1/10W
R2060	1-216-808-11	METAL CHIP	82	5%	1/10W
R2061	1-216-808-11	METAL CHIP	82	5%	1/10W
R2062	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2063	1-216-801-11	METAL CHIP	22	5%	1/10W
R2064	1-216-801-11	METAL CHIP	22	5%	1/10W
R2065	1-216-801-11	METAL CHIP	22	5%	1/10W
R2066	1-216-801-11	METAL CHIP	22	5%	1/10W
R2067	1-216-801-11	METAL CHIP	22	5%	1/10W
R2068	1-216-801-11	METAL CHIP	22	5%	1/10W
R2069	1-216-815-11	METAL CHIP	330	5%	1/10W
R2071	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2072	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2073	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2074	1-400-259-21	FERRITE	0uH		
R2076	1-216-803-11	METAL CHIP	33	5%	1/10W
R2077	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2078	1-216-833-11	METAL CHIP	10K	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R2079	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2080	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2100	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3000	1-216-864-11	METAL CHIP	0	5%	1/10W
R3001	1-216-841-11	METAL CHIP	47K	5%	1/10W
R3002	1-216-864-11	METAL CHIP	0	5%	1/10W
R3003	1-216-805-11	METAL CHIP	47	5%	1/10W
R3004	1-216-864-11	METAL CHIP	0	5%	1/10W
R3005	1-216-806-11	METAL CHIP	56	5%	1/10W
R3006	1-216-864-11	METAL CHIP	0	5%	1/10W
R3007	1-216-864-11	METAL CHIP	0	5%	1/10W
R3008	1-216-864-11	METAL CHIP	0	5%	1/10W
R3009	1-216-864-11	METAL CHIP	0	5%	1/10W
R3010	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R3011	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3012	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3013	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3014	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3016	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3018	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3020	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3021	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R3022	1-216-864-11	METAL CHIP	0	5%	1/10W
R3023	1-216-864-11	METAL CHIP	0	5%	1/10W
R3030	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3032	1-216-807-11	METAL CHIP	68	5%	1/10W
R3034	1-216-864-11	METAL CHIP	0	5%	1/10W
R3035	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3036	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3041	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3042	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3043	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3045	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3068	1-216-803-11	METAL CHIP	33	5%	1/10W
R4000	1-216-864-11	METAL CHIP	0	5%	1/10W
R4001	1-216-864-11	METAL CHIP	0	5%	1/10W
R4002	1-216-864-11	METAL CHIP	0	5%	1/10W
R4003	1-216-864-11	METAL CHIP	0	5%	1/10W
R4005	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4007	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4011	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4012	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4013	1-216-864-11	METAL CHIP	0	5%	1/10W
R4014	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4016	1-216-819-11	METAL CHIP	680	5%	1/10W
R4017	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4018	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4019	1-216-821-11	METAL CHIP	1K	5%	1/10W
R4021	1-216-845-11	METAL CHIP	100K	5%	1/10W
R4022	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4031	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R4032	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4033	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4034	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4035	1-216-801-11	METAL CHIP	22	5%	1/10W
R4041	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4046	1-216-801-11	METAL CHIP	22	5%	1/10W
R4047	1-216-801-11	METAL CHIP	22	5%	1/10W
R4048	1-216-801-11	METAL CHIP	22	5%	1/10W
R4049	1-216-845-11	METAL CHIP	100K	5%	1/10W
R4050	1-216-864-11	METAL CHIP	0	5%	1/10W
R4051	1-216-845-11	METAL CHIP	100K	5%	1/10W
R4052	1-216-864-11	METAL CHIP	0	5%	1/10W
R4053	1-216-864-11	METAL CHIP	0	5%	1/10W
R4109	1-216-803-11	METAL CHIP	33	5%	1/10W
R4110	1-216-803-11	METAL CHIP	33	5%	1/10W
R4111	1-216-835-11	METAL CHIP	15K	5%	1/10W
R4112	1-216-835-11	METAL CHIP	15K	5%	1/10W
R4201	1-216-864-11	METAL CHIP	0	5%	1/10W
R4202	1-216-845-11	METAL CHIP	100K	5%	1/10W
R4203	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4211	1-216-807-11	METAL CHIP	68	5%	1/10W
R4212	1-216-809-11	METAL CHIP	100	5%	1/10W
R4213	1-216-864-11	METAL CHIP	0	5%	1/10W
R4214	1-216-807-11	METAL CHIP	68	5%	1/10W
R4216	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4217	1-216-811-11	METAL CHIP	150	5%	1/10W
R4218	1-216-811-11	METAL CHIP	150	5%	1/10W
R4219	1-216-864-11	METAL CHIP	0	5%	1/10W
R4220	1-216-864-11	METAL CHIP	0	5%	1/10W
R4221	1-216-845-11	METAL CHIP	100K	5%	1/10W
R4223	1-216-815-11	METAL CHIP	330	5%	1/10W
R4301	1-216-864-11	METAL CHIP	0	5%	1/10W
R4302	1-216-864-11	METAL CHIP	0	5%	1/10W
R4303	1-216-864-11	METAL CHIP	0	5%	1/10W
R4304	1-216-864-11	METAL CHIP	0	5%	1/10W
R4305	1-216-864-11	METAL CHIP	0	5%	1/10W
R4307	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4308	1-216-864-11	METAL CHIP	0	5%	1/10W
R4311	1-216-864-11	METAL CHIP	0	5%	1/10W
R4312	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4313	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4315	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4317	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4318	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4321	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R4322	1-216-857-11	METAL CHIP	1M	5%	1/10W
R4323	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4324	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4327	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4328	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4330	1-216-864-11	METAL CHIP	0	5%	1/10W
R4331	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4332	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4333	1-216-864-11	METAL CHIP	0	5%	1/10W
R4334	1-216-864-11	METAL CHIP	0	5%	1/10W
R4339	1-216-864-11	METAL CHIP	0	5%	1/10W
R5001	1-216-838-11	METAL CHIP	27K	5%	1/10W
R5005	1-216-809-11	METAL CHIP	100	5%	1/10W
R5007	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5008	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5009	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

< COMPOSITION CIRCUIT BLOCK >

RB1002	1-233-575-11	RES, CHIP NETWORK 22			

Ref. No.	Part No.	Description			Remark
RB1003	1-233-575-11	RES, CHIP NETWORK 22			
RB1004	1-233-575-11	RES, CHIP NETWORK 22			
RB1005	1-233-575-11	RES, CHIP NETWORK 22			
RB1006	1-233-575-11	RES, CHIP NETWORK 22			
RB1007	1-233-575-11	RES, CHIP NETWORK 22			
RB1008	1-233-575-11	RES, CHIP NETWORK 22			
RB1009	1-233-575-11	RES, CHIP NETWORK 22			
RB2000	1-233-575-11	RES, CHIP NETWORK 22			
RB2001	1-233-575-11	RES, CHIP NETWORK 22			
RB2002	1-233-575-11	RES, CHIP NETWORK 22			
RB2003	1-233-575-11	RES, CHIP NETWORK 22			
RB2004	1-233-575-11	RES, CHIP NETWORK 22			
RB2005	1-233-575-11	RES, CHIP NETWORK 22			
RB2006	1-233-575-11	RES, CHIP NETWORK 22			
RB2007	1-233-575-11	RES, CHIP NETWORK 22			
RB2008	1-233-575-11	RES, CHIP NETWORK 22			
RB2009	1-233-575-11	RES, CHIP NETWORK 22			
RB2010	1-233-575-11	RES, CHIP NETWORK 22			
RB2011	1-233-575-11	RES, CHIP NETWORK 22			
RB4001	1-233-575-11	RES, CHIP NETWORK 22			
RB4002	1-233-575-11	RES, CHIP NETWORK 22			
RB4003	1-233-575-11	RES, CHIP NETWORK 22			
RB4004	1-233-575-11	RES, CHIP NETWORK 22			
RB4005	1-233-575-11	RES, CHIP NETWORK 22			
RB4006	1-233-575-11	RES, CHIP NETWORK 22			
RB4007	1-233-575-11	RES, CHIP NETWORK 22			
RB4008	1-233-575-11	RES, CHIP NETWORK 22			
		< SWITCH >			
S4202	1-762-455-51	SWITCH, PUSH (1 KEY) (USB DETECT)			
		< COIL >			
T4101	1-456-074-11	COIL, CHOKE			
		< VIBRATOR >			
X1001	1-795-589-21	VIBRATOR, CRYSTAL (33.3333MHz)			
* X3002	1-795-431-21	OSCILLATOR, CRYSTAL (37.5MHz)			
X4001	1-767-722-21	VIBRATOR, CRYSTAL (22.579MHz)			
X4002	1-781-265-21	VIBRATOR, CRYSTAL (20MHz)			
* X4301	1-795-429-21	VIBRATOR, CRYSTAL (6MHz)			
**********					
	A-3274-574-A	POWER BOARD, COMPLETE			
		**********			
	3-238-888-01	SHIELD (DC1)			
	3-238-889-01	SHIELD (DC2)			
	3-242-212-01	SHEET (IC3), RADIATION			
	3-244-641-32	SHEET (A), VIBRATION			
	3-244-648-02	SHEET (B), VIBRATION			
	3-245-299-01	SHEET (DC), INSULATING			
		< CAPACITOR >			
C111	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C703	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C705	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C706	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C707	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C708	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C709	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C710	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C711	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C712	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C713	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C714	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C715	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C716	1-117-808-11	CERAMIC CHIP	10uF	10%	10V
C717	1-117-808-11	CERAMIC CHIP	10uF	10%	10V
C718	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C719	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C720	1-117-808-11	CERAMIC CHIP	10uF	10%	10V
C722	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C723	1-100-055-11	CERAMIC CHIP	22uF	20%	16V
C724	1-100-055-11	CERAMIC CHIP	22uF	20%	16V
C725	1-117-808-11	CERAMIC CHIP	10uF	10%	10V
C726	1-117-808-11	CERAMIC CHIP	10uF	10%	10V
C727	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C728	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C731	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C734	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C735	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C736	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C739	1-165-874-21	ELECT CHIP	120uF	20%	6.3V
C740	1-165-874-21	ELECT CHIP	120uF	20%	6.3V
C742	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C743	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C744	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C745	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C750	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C751	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C752	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C753	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C755	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C756	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C757	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C758	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C759	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C760	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C761	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C799	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
		< CONNECTOR >			
CN701	1-816-502-11	CONNECTOR, BOARD TO BOARD 22P			
CN702	1-816-501-11	CONNECTOR, BOARD TO BOARD 24P			
		< DIODE >			
D702	8-719-070-23	DIODE EP05Q03L-TE8L3			
D703	8-719-070-23	DIODE EP05Q03L-TE8L3			
D704	8-719-404-50	DIODE MA111-TX			
D705	8-719-422-41	DIODE MA8051-L-TX			
		< FILTER >			
FL701	1-400-267-21	FILTER, EMI			

POWER SERVO

Ref. No.	Part No.	Description				Remark
		< IC >				
IC701	8-759-597-57	IC	LTC1628CG#TR			
* IC702	6-700-926-01	IC	TPS77601PWPR			
IC703	8-759-829-80	IC	XC62FP1802MR			
* IC704	8-729-053-80	FET	SI4830DY-T1			
* IC705	8-729-053-80	FET	SI4830DY-T1			
IC707	6-702-274-01	IC	XC612N4644MR			
IC708	6-702-273-01	IC	XC612N3129MR			
IC709	6-702-272-01	IC	XC612N2016MR			
IC711	8-759-598-41	IC	TC7W32FK (TE85R)			
IC712	8-759-523-08	IC	TC74AC08FT (EL)			
IC713	6-702-271-01	IC	XC612N1917MR			
		< COIL >				
L701	1-419-878-21	COIL, POWER				
L702	1-419-878-21	COIL, POWER				
		< TRANSISTOR >				
Q704	8-729-027-58	TRANSISTOR	DTC143ZKA-T146			
Q705	8-729-027-58	TRANSISTOR	DTC143ZKA-T146			
Q706	8-729-027-58	TRANSISTOR	DTC143ZKA-T146			
Q707	8-729-027-58	TRANSISTOR	DTC143ZKA-T146			
Q708	8-729-027-58	TRANSISTOR	DTC143ZKA-T146			
Q710	8-729-027-58	TRANSISTOR	DTC143ZKA-T146			
Q713	8-729-027-58	TRANSISTOR	DTC143ZKA-T146			
Q717	8-729-054-36	FET	UPA1716G-E2			
		< RESISTOR >				
R702	1-216-296-11	SHORT CHIP	0			
R703	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R704	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R705	1-218-730-11	METAL CHIP	39K	0.5%	1/16W	
R706	1-218-720-11	METAL CHIP	15K	0.5%	1/16W	
R707	1-218-724-11	METAL CHIP	22K	0.5%	1/16W	
R708	1-218-727-11	METAL CHIP	30K	0.5%	1/16W	
R710	1-218-720-11	METAL CHIP	15K	0.5%	1/16W	
R711	1-218-720-11	METAL CHIP	15K	0.5%	1/16W	
R713	1-218-721-11	METAL CHIP	16K	0.5%	1/16W	
R714	1-218-745-11	METAL CHIP	160K	0.5%	1/16W	
R715	1-218-733-11	METAL CHIP	51K	0.5%	1/16W	
R716	1-216-861-11	METAL CHIP	2.2M	5%	1/10W	
R718	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R720	1-216-861-11	METAL CHIP	2.2M	5%	1/10W	
R721	1-216-797-11	METAL CHIP	10	5%	1/10W	
R722	1-218-446-11	METAL CHIP	1	5%	1/10W	
R723	1-218-446-11	METAL CHIP	1	5%	1/10W	
R724	1-218-744-11	METAL CHIP	150K	0.5%	1/16W	
R726	1-218-744-11	METAL CHIP	150K	0.5%	1/16W	
R727	1-218-734-11	METAL CHIP	56K	0.5%	1/16W	
R732	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R733	1-245-113-21	RES-CHIP	0.015	1%	1W	
R734	1-245-113-21	RES-CHIP	0.015	1%	1W	
R735	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R747	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R758	1-216-864-11	METAL CHIP	0	5%	1/10W	
R759	1-216-864-11	METAL CHIP	0	5%	1/10W	
R760	1-216-864-11	METAL CHIP	0	5%	1/10W	
R762	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R763	1-216-864-11	METAL CHIP	0	5%	1/10W	
R766	1-216-864-11	METAL CHIP	0	5%	1/10W	
R767	1-216-864-11	METAL CHIP	0	5%	1/10W	
R768	1-216-864-11	METAL CHIP	0	5%	1/10W	
R770	1-216-864-11	METAL CHIP	0	5%	1/10W	
R772	1-216-864-11	METAL CHIP	0	5%	1/10W	
R773	1-216-864-11	METAL CHIP	0	5%	1/10W	
R776	1-216-864-11	METAL CHIP	0	5%	1/10W	
R777	1-216-864-11	METAL CHIP	0	5%	1/10W	
R778	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R779	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R780	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R781	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R785	1-216-864-11	METAL CHIP	0	5%	1/10W	
R786	1-216-864-11	METAL CHIP	0	5%	1/10W	
R787	1-216-864-11	METAL CHIP	0	5%	1/10W	
R788	1-216-864-11	METAL CHIP	0	5%	1/10W	
R789	1-216-864-11	METAL CHIP	0	5%	1/10W	
R790	1-216-864-11	METAL CHIP	0	5%	1/10W	
R791	1-216-864-11	METAL CHIP	0	5%	1/10W	
R793	1-216-864-11	METAL CHIP	0	5%	1/10W	
R794	1-216-864-11	METAL CHIP	0	5%	1/10W	
R795	1-216-864-11	METAL CHIP	0	5%	1/10W	
R796	1-216-864-11	METAL CHIP	0	5%	1/10W	
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	A-3340-218-A	SERVO BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C1	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C2	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C3	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C4	1-104-852-11	TANTALUM CHIP	22uF	20%	10V	
C5	1-104-851-11	TANTALUM CHIP	10uF	20%	10V	
C6	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C7	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C8	1-104-851-11	TANTALUM CHIP	10uF	20%	10V	
C9	1-104-851-11	TANTALUM CHIP	10uF	20%	10V	
C10	1-104-851-11	TANTALUM CHIP	10uF	20%	10V	
C11	1-104-851-11	TANTALUM CHIP	10uF	20%	10V	
C12	1-104-851-11	TANTALUM CHIP	10uF	20%	10V	
C13	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C14	1-104-851-11	TANTALUM CHIP	10uF	20%	10V	
C15	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C16	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C17	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C18	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	
C19	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C20	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C21	1-128-934-11	CERAMIC CHIP	0.33uF	20%	10V	
C22	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C23	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C24	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	
C25	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C26	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C27	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	

Ref. No.	Part No.	Description			Remark
C28	1-104-852-11	TANTALUM CHIP	22uF	20%	10V
C29	1-104-852-11	TANTALUM CHIP	22uF	20%	10V
C30	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C31	1-115-156-11	CERAMIC CHIP	1uF		10V
C32	1-104-851-11	TANTALUM CHIP	10uF	20%	10V
C33	1-104-851-11	TANTALUM CHIP	10uF	20%	10V
C34	1-162-909-11	CERAMIC CHIP	4PF	0.25PF	50V
C35	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C36	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C37	1-115-156-11	CERAMIC CHIP	1uF		10V
C38	1-115-156-11	CERAMIC CHIP	1uF		10V
C39	1-115-156-11	CERAMIC CHIP	1uF		10V
C40	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C41	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C42	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C43	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C44	1-104-851-11	TANTALUM CHIP	10uF	20%	10V
C45	1-162-925-11	CERAMIC CHIP	68PF	5%	50V
C46	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C47	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C48	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C50	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C52	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C53	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C54	1-104-851-11	TANTALUM CHIP	10uF	20%	10V
C55	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C56	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C57	1-104-851-11	TANTALUM CHIP	10uF	20%	10V
C58	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C59	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C60	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C61	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C62	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C63	1-162-911-11	CERAMIC CHIP	6PF	0.5PF	50V
C64	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C65	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C66	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C67	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C68	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C69	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C70	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C71	1-104-851-11	TANTALUM CHIP	10uF	20%	10V
C76	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C77	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C78	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C79	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C80	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C81	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C82	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C83	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C84	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C85	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C86	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C87	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C88	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C89	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C90	1-104-851-11	TANTALUM CHIP	10uF	20%	10V
C91	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C92	1-104-852-11	TANTALUM CHIP	22uF	20%	10V
C93	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C94	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C95	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C96	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C97	1-104-852-11	TANTALUM CHIP	22uF	20%	10V
C98	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< CONNECTOR >			
CN1	1-691-377-21	CONNECTOR, FFC/FPC 13P			
* CN2	1-785-877-21	HOUSING, CONNECTOR 4P			
CN3	1-784-342-21	HOUSING, CONNECTOR 2P			
CN5	1-794-501-11	CONNECTOR, FFC/FPC (ZIF) 4P			
CN6	1-691-358-21	CONNECTOR, FFC/FPC (ZIF) 20P			
CN7	1-816-336-11	CONNECTOR, FFC/FPC (ZIF) 40P			
CN8	1-766-335-21	CONNECTOR, FFC/FPC 5P			
		< DIODE >			
D1	6-500-274-01	LED CL-220UB-X-TS-A-E (OPEN/CLOSE ⏏)			
D2	6-500-274-01	LED CL-220UB-X-TS-A-E (TRAY ILLUMINATION)			
D3	6-500-274-01	LED CL-220UB-X-TS-A-E (TRAY ILLUMINATION)			
D5	6-500-274-01	LED CL-220UB-X-TS-A-E (FRONT ILLUMINATION (TRAY))			
D6	8-719-060-48	DIODE RB751V-40TE-17			
D7	8-719-069-28	DIODE 1SS400TE-61			
D8	8-719-069-28	DIODE 1SS400TE-61			
D9	8-719-422-46	DIODE MA8056-TX			
D10	8-719-069-28	DIODE 1SS400TE-61			
D11	8-719-069-28	DIODE 1SS400TE-61			
D12	8-719-422-46	DIODE MA8056-TX			
D13	8-719-988-61	DIODE 1SS355TE-17			
		< FERRITE BEAD >			
FB1	1-469-121-21	FERRITE	0uH		
FB2	1-469-121-21	FERRITE	0uH		
FB3	1-469-121-21	FERRITE	0uH		
FB4	1-469-121-21	FERRITE	0uH		
FB5	1-469-121-21	FERRITE	0uH		
FB6	1-469-121-21	FERRITE	0uH		
FB7	1-469-121-21	FERRITE	0uH		
FB8	1-469-121-21	FERRITE	0uH		
FB9	1-469-121-21	FERRITE	0uH		
FB10	1-469-121-21	FERRITE	0uH		
FB11	1-469-121-21	FERRITE	0uH		
FB12	1-469-121-21	FERRITE	0uH		
FB13	1-469-121-21	FERRITE	0uH		
FB14	1-469-121-21	FERRITE	0uH		
FB15	1-469-121-21	FERRITE	0uH		
FB16	1-469-121-21	FERRITE	0uH		
FB17	1-469-121-21	FERRITE	0uH		
FB18	1-469-121-21	FERRITE	0uH		
FB19	1-469-121-21	FERRITE	0uH		
FB20	1-469-121-21	FERRITE	0uH		
FB21	1-469-121-21	FERRITE	0uH		

SERVO

Ref. No.	Part No.	Description			Remark
FB22	1-469-121-21	FERRITE	0uH		
FB23	1-469-121-21	FERRITE	0uH		
FB24	1-469-121-21	FERRITE	0uH		
FB25	1-469-121-21	FERRITE	0uH		
FB26	1-469-121-21	FERRITE	0uH		
FB27	1-469-121-21	FERRITE	0uH		
FB28	1-469-121-21	FERRITE	0uH		
FB29	1-469-121-21	FERRITE	0uH		
FB30	1-469-121-21	FERRITE	0uH		
		< IC >			
* IC1	6-700-863-01	IC LA9246T-TLM			
IC2	6-700-862-01	IC TK71520ASCL			
IC3	8-759-347-09	IC NJU7034V-TE2			
* IC5	6-700-865-01	IC BD6609FV			
* IC6	6-800-609-01	IC BA5918FP-Y			
* IC7	6-700-924-01	IC XC61CN4602MR			
* IC8	6-700-866-01	IC LC895300			
IC9	6-802-070-01	IC NX29F010-70T-550D02			
IC10	8-759-693-13	IC NJM12904V (TE2)			
IC12	8-759-347-09	IC NJU7034V-TE2			
		< COIL >			
L1	1-414-398-11	INDUCTOR	10uH		
L2	1-414-398-11	INDUCTOR	10uH		
L3	1-414-398-11	INDUCTOR	10uH		
L4	1-414-398-11	INDUCTOR	10uH		
		< TRANSISTOR >			
Q1	8-729-026-49	TRANSISTOR	2SA1037AK-T146-QR		
Q2	8-729-027-57	TRANSISTOR	DTC143XKA-T146		
Q3	8-729-027-57	TRANSISTOR	DTC143XKA-T146		
Q4	8-729-027-57	TRANSISTOR	DTC143XKA-T146		
Q5	8-729-027-57	TRANSISTOR	DTC143XKA-T146		
Q6	8-729-106-68	TRANSISTOR	2SD1664-T100-Q		
Q7	8-729-927-99	TRANSISTOR	2SC4617TL-Q		
Q8	8-729-027-57	TRANSISTOR	DTC143XKA-T146		
Q9	8-729-027-57	TRANSISTOR	DTC143XKA-T146		
Q10	8-729-927-99	TRANSISTOR	2SC4617TL-Q		
		< RESISTOR >			
R1	1-216-797-11	METAL CHIP	10	5%	1/10W
R2	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R3	1-218-694-11	METAL CHIP	1.2K	0.5%	1/16W
R4	1-218-691-11	METAL CHIP	910	0.5%	1/16W
R5	1-218-694-11	METAL CHIP	1.2K	0.5%	1/16W
R6	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R7	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R8	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R9	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R10	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R11	1-216-839-11	METAL CHIP	33K	5%	1/10W
R12	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R13	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R14	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R15	1-218-446-11	METAL CHIP	1	5%	1/10W
R16	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R17	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R18	1-218-446-11	METAL CHIP	1	5%	1/10W

Ref. No.	Part No.	Description			Remark
R19	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R20	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R21	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R22	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R23	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R24	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R25	1-216-821-11	METAL CHIP	1K	5%	1/10W
R26	1-216-833-11	METAL CHIP	10K	5%	1/10W
R27	1-216-833-11	METAL CHIP	10K	5%	1/10W
R28	1-218-272-11	METAL CHIP	5.1K	5%	1/10W
R30	1-216-833-11	METAL CHIP	10K	5%	1/10W
R31	1-216-821-11	METAL CHIP	1K	5%	1/10W
R33	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R34	1-216-821-11	METAL CHIP	1K	5%	1/10W
R35	1-216-821-11	METAL CHIP	1K	5%	1/10W
R36	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R38	1-216-864-11	METAL CHIP	0	5%	1/10W
R39	1-216-864-11	METAL CHIP	0	5%	1/10W
R41	1-216-821-11	METAL CHIP	1K	5%	1/10W
R42	1-216-819-11	METAL CHIP	680	5%	1/10W
R43	1-216-864-11	METAL CHIP	0	5%	1/10W
R44	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R45	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R47	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R48	1-218-296-11	METAL CHIP	75K	5%	1/10W
R49	1-218-296-11	METAL CHIP	75K	5%	1/10W
R50	1-216-833-11	METAL CHIP	10K	5%	1/10W
R51	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R52	1-216-821-11	METAL CHIP	1K	5%	1/10W
R55	1-216-835-11	METAL CHIP	15K	5%	1/10W
R56	1-216-837-11	METAL CHIP	22K	5%	1/10W
R57	1-216-840-11	METAL CHIP	39K	5%	1/10W
R59	1-216-809-11	METAL CHIP	100	5%	1/10W
R60	1-216-821-11	METAL CHIP	1K	5%	1/10W
R63	1-216-809-11	METAL CHIP	100	5%	1/10W
R64	1-216-821-11	METAL CHIP	1K	5%	1/10W
R65	1-216-833-11	METAL CHIP	10K	5%	1/10W
R66	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R67	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R68	1-216-821-11	METAL CHIP	1K	5%	1/10W
R69	1-216-835-11	METAL CHIP	15K	5%	1/10W
R70	1-216-797-11	METAL CHIP	10	5%	1/10W
R71	1-216-833-11	METAL CHIP	10K	5%	1/10W
R72	1-216-857-11	METAL CHIP	1M	5%	1/10W
R73	1-216-854-11	METAL CHIP	560K	5%	1/10W
R74	1-216-853-11	METAL CHIP	470K	5%	1/10W
R75	1-216-814-11	METAL CHIP	270	5%	1/10W
R81	1-216-834-11	METAL CHIP	12K	5%	1/10W
R82	1-216-834-11	METAL CHIP	12K	5%	1/10W
R83	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R84	1-216-835-11	METAL CHIP	15K	5%	1/10W
R85	1-216-837-11	METAL CHIP	22K	5%	1/10W
R86	1-216-837-11	METAL CHIP	22K	5%	1/10W
R87	1-216-833-11	METAL CHIP	10K	5%	1/10W
R88	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R89	1-216-845-11	METAL CHIP	100K	5%	1/10W
R90	1-216-832-11	METAL CHIP	8.2K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R91	1-216-849-11	METAL CHIP	220K	5%	1/10W
R92	1-216-833-11	METAL CHIP	10K	5%	1/10W
R93	1-216-833-11	METAL CHIP	10K	5%	1/10W
R94	1-216-864-11	METAL CHIP	0	5%	1/10W
R95	1-216-833-11	METAL CHIP	10K	5%	1/10W
R97	1-216-833-11	METAL CHIP	10K	5%	1/10W
R98	1-216-797-11	METAL CHIP	10	5%	1/10W
R99	1-216-857-11	METAL CHIP	1M	5%	1/10W
R100	1-216-811-11	METAL CHIP	150	5%	1/10W
R102	1-216-797-11	METAL CHIP	10	5%	1/10W
R103	1-216-797-11	METAL CHIP	10	5%	1/10W
R104	1-216-833-11	METAL CHIP	10K	5%	1/10W
R105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R107	1-216-833-11	METAL CHIP	10K	5%	1/10W
R108	1-216-833-11	METAL CHIP	10K	5%	1/10W
R109	1-216-833-11	METAL CHIP	10K	5%	1/10W
R111	1-216-816-11	METAL CHIP	390	5%	1/10W
R115	1-216-808-11	METAL CHIP	82	5%	1/10W
R116	1-216-808-11	METAL CHIP	82	5%	1/10W
R117	1-216-808-11	METAL CHIP	82	5%	1/10W
R118	1-216-808-11	METAL CHIP	82	5%	1/10W
R120	1-216-808-11	METAL CHIP	82	5%	1/10W
R122	1-216-801-11	METAL CHIP	22	5%	1/10W
R123	1-216-808-11	METAL CHIP	82	5%	1/10W
R124	1-216-801-11	METAL CHIP	22	5%	1/10W
R125	1-216-808-11	METAL CHIP	82	5%	1/10W
R126	1-216-808-11	METAL CHIP	82	5%	1/10W
R127	1-216-801-11	METAL CHIP	22	5%	1/10W
R128	1-216-803-11	METAL CHIP	33	5%	1/10W
R129	1-216-803-11	METAL CHIP	33	5%	1/10W
R130	1-216-803-11	METAL CHIP	33	5%	1/10W
R131	1-216-803-11	METAL CHIP	33	5%	1/10W
R132	1-216-803-11	METAL CHIP	33	5%	1/10W
R133	1-216-803-11	METAL CHIP	33	5%	1/10W
R134	1-216-803-11	METAL CHIP	33	5%	1/10W
R135	1-216-803-11	METAL CHIP	33	5%	1/10W
R136	1-216-803-11	METAL CHIP	33	5%	1/10W
R137	1-216-803-11	METAL CHIP	33	5%	1/10W
R138	1-216-803-11	METAL CHIP	33	5%	1/10W
R139	1-216-803-11	METAL CHIP	33	5%	1/10W
R140	1-216-803-11	METAL CHIP	33	5%	1/10W
R141	1-216-803-11	METAL CHIP	33	5%	1/10W
R142	1-216-803-11	METAL CHIP	33	5%	1/10W
R143	1-216-803-11	METAL CHIP	33	5%	1/10W
R144	1-216-821-11	METAL CHIP	1K	5%	1/10W
R146	1-216-833-11	METAL CHIP	10K	5%	1/10W
R147	1-216-833-11	METAL CHIP	10K	5%	1/10W
R148	1-216-816-11	METAL CHIP	390	5%	1/10W
R149	1-216-864-11	METAL CHIP	0	5%	1/10W
R150	1-216-816-11	METAL CHIP	390	5%	1/10W
R151	1-216-816-11	METAL CHIP	390	5%	1/10W
R157	1-216-816-11	METAL CHIP	390	5%	1/10W
		< SWITCH >			
S1	1-529-565-41	SWITCH, PUSH (1 KEY) (CLOSE-END DETECT)			
S2	1-529-565-41	SWITCH, PUSH (1 KEY) (OPEN-END DETECT)			
S3	1-692-088-51	SWITCH, TACTILE (OPEN/CLOSE ⏏)			

Ref. No.	Part No.	Description			Remark
		< VIBRATOR >			
X1	1-781-834-21	VIBRATOR, CERAMIC (33.8688MHz)			
**********					
	A-3274-573-A	SUB BOARD, COMPLETE			
		**********			
	1-824-052-11	CORD, CONNECTION (AUX) (AUX IN/SUB OUT)			
	1-824-055-11	CORD, CONNECTION (ANT)			
*	3-019-565-01	BRACKET (IC)			
*	3-048-454-01	SHIELD (COVER)			
	3-238-881-01	CHASSIS, BACK			
	3-238-885-01	HEAT SINK (R)			
	3-238-887-01	HEAT SINK			
	3-242-209-01	SHEET (PWIC), RADIATION			
	3-244-641-02	SHEET (A), VIBRATION			
	3-244-647-01	STICK FINGER			
	3-245-716-01	FINGER (B), STICK			
	7-685-792-09	SCREW +PTT 2.6X6 (S)			
	7-685-793-09	SCREW +PTT 2.6X8 (S)			
	7-685-797-09	SCREW +PTT 2.6X16 (S)			
		< TERMINAL >			
BN103	1-694-592-31	TERMINAL			
		< BUZZER >			
BZ361	1-504-920-21	BUZZER			
		< CAPACITOR/SHORT >			
C101	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C102	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C106	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C107	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C111	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C112	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C113	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C115	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C116	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C117	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C151	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C152	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C153	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C155	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C156	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C157	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C158	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C159	1-128-994-21	ELECT CHIP	47uF	20%	10V
C160	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C161	1-135-834-11	CERAMIC CHIP	2.2uF		6.3V
C162	1-164-739-11	CERAMIC CHIP	560PF	5%	50V
C163	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C165	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C166	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C167	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C168	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C170	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C171	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C172	1-113-619-11	CERAMIC CHIP	0.47uF		10V

SUB

Ref. No.	Part No.	Description			Remark
C173	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C175	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C176	1-126-193-11	ELECT	1uF	20%	50V
C201	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C202	1-126-193-11	ELECT	1uF	20%	50V
C203	1-126-603-11	ELECT CHIP	4.7uF	20%	35V
C204	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C205	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C206	1-126-395-11	ELECT	22uF	20%	16V
C207	1-126-394-11	ELECT CHIP	10uF	20%	16V
C208	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C210	1-100-381-11	ELECT CHIP	10uF	20%	16V
C211	1-126-395-11	ELECT	22uF	20%	16V
C212	1-126-395-11	ELECT	22uF	20%	16V
C213	1-126-394-11	ELECT CHIP	10uF	20%	16V
C215	1-128-995-21	ELECT CHIP	100uF	20%	10V
C216	1-125-701-11	DOUBLE LAYER	0.047F		5.5V
C225	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C226	1-126-204-11	ELECT CHIP	47uF	20%	16V
C301	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C302	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C303	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C304	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C305	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C306	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C307	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C308	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C309	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C310	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C311	1-128-394-11	ELECT CHIP	220uF	20%	10V
C312	1-100-381-11	ELECT CHIP	10uF	20%	16V
C313	1-135-816-21	FILM CHIP	0.012uF	5%	16V
C314	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C315	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C316	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C317	1-135-816-21	FILM CHIP	0.012uF	5%	16V
C318	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C319	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C320	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C321	1-100-382-11	ELECT CHIP	4.7uF	20%	35V
C322	1-100-382-11	ELECT CHIP	4.7uF	20%	35V
C323	1-100-382-11	ELECT CHIP	4.7uF	20%	35V
C325	1-100-382-11	ELECT CHIP	4.7uF	20%	35V
C326	1-126-603-11	ELECT CHIP	4.7uF	20%	35V
C330	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C331	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C332	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C333	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C335	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C336	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C337	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C338	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C340	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C341	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C342	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C343	1-126-204-11	ELECT CHIP	47uF	20%	16V
C344	1-126-394-11	ELECT CHIP	10uF	20%	16V

Ref. No.	Part No.	Description			Remark
C346	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C347	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C351	1-124-779-00	ELECT CHIP	10uF	20%	16V
C352	1-124-779-00	ELECT CHIP	10uF	20%	16V
C356	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C358	1-126-204-11	ELECT CHIP	47uF	20%	16V
C361	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C365	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C366	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C367	1-216-864-11	METAL CHIP	0	5%	1/10W
C368	1-216-864-11	METAL CHIP	0	5%	1/10W
C369	1-216-864-11	METAL CHIP	0	5%	1/10W
C370	1-216-864-11	METAL CHIP	0	5%	1/10W
C371	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C372	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C373	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C374	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C375	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C376	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C377	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C378	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C379	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C383	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C384	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C385	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C386	1-100-381-11	ELECT CHIP	10uF	20%	16V
C387	1-216-296-11	SHORT CHIP	0		
C388	1-216-296-11	SHORT CHIP	0		
C393	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C394	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C395	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C396	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C397	1-124-779-00	ELECT CHIP	10uF	20%	16V
C398	1-100-381-11	ELECT CHIP	10uF	20%	16V
C401	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C402	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C403	1-126-204-11	ELECT CHIP	47uF	20%	16V
C404	1-124-779-00	ELECT CHIP	10uF	20%	16V
C411	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C412	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C413	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C435	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C436	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C501	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C502	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C503	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C504	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C505	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C506	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C508	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C510	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C511	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C513	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C515	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C516	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C521	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C522	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C523	1-135-834-11	CERAMIC CHIP	2.2uF		6.3V

Ref. No.	Part No.	Description			Remark
C525	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C541	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C542	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C561	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C562	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C563	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C564	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C571	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C802	1-165-874-21	ELECT CHIP	120uF	20%	6.3V
C805	1-117-713-21	ELECT CHIP	100uF	20%	50V
C807	1-110-501-11	CERAMIC CHIP	0.33uF	10%	16V
C809	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C810	1-135-599-11	ELECT CHIP	39uF	20%	16V
C851	1-164-156-11	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR >			
CN301	1-573-806-21	PIN, CONNECTOR (1.5mm) (SMD) 6P			
* CN411	1-573-768-21	PIN, CONNECTOR (1.5mm) (SMD) 5P			
* CN521	1-779-056-21	PIN, CONNECTOR (PC BOARD) 5P			
CN524	1-691-384-11	CONNECTOR, FFC/FPC 20P			
CN525	1-816-503-11	CONNECTOR, BOARD TO BOARD 24P			
* CN526	1-778-652-11	CONNECTOR, FFC (ZIF) 50P			
* CN528	1-695-320-21	PIN, CONNECTOR (1.5mm) (SMD) 2P			
		< JACK >			
CNJ201	1-793-277-11	PLUG, CONNECTOR 16P			
CNJ302	1-774-699-12	JACK, PIN 4P (AUDIO OUT REAR/FRONT)			
		< DIODE >			
D151	8-719-820-41	DIODE	1SS302-TE85L		
D152	8-719-047-98	DIODE	HZU5.6B2TRF		
D206	8-719-404-50	DIODE	MA111-TX		
D207	8-719-422-41	DIODE	MA8051-L-TX		
D208	8-719-404-50	DIODE	MA111-TX		
D210	8-719-053-18	DIODE	1SR154-400TE-25		
D221	8-719-053-18	DIODE	1SR154-400TE-25		
D222	8-719-053-18	DIODE	1SR154-400TE-25		
D223	8-719-053-18	DIODE	1SR154-400TE-25		
D231	8-719-422-76	DIODE	MA8075-M-TX		
D232	8-719-057-80	DIODE	MA8180-M-TX		
D301	8-719-074-47	DIODE	CRS02 (TE85L)		
D302	8-719-074-47	DIODE	CRS02 (TE85L)		
D303	8-719-074-47	DIODE	CRS02 (TE85L)		
D305	8-719-074-47	DIODE	CRS02 (TE85L)		
D306	8-719-074-47	DIODE	CRS02 (TE85L)		
D307	8-719-074-47	DIODE	CRS02 (TE85L)		
D308	8-719-074-47	DIODE	CRS02 (TE85L)		
D310	8-719-074-47	DIODE	CRS02 (TE85L)		
D311	8-719-404-50	DIODE	MA111-TX		
D351	8-719-404-50	DIODE	MA111-TX		
D361	8-719-977-12	DIODE	MA8068-M-TX		
D411	8-719-820-05	DIODE	MA152WA-TX		
D501	8-719-404-50	DIODE	MA111-TX		
D505	8-719-404-50	DIODE	MA111-TX		
D507	8-719-404-50	DIODE	MA111-TX		
D508	8-719-404-50	DIODE	MA111-TX		
D510	8-719-060-48	DIODE	RB751V-40TE-17		
D511	8-719-060-48	DIODE	RB751V-40TE-17		
D512	8-719-060-48	DIODE	RB751V-40TE-17		
D513	8-719-060-48	DIODE	RB751V-40TE-17		
D514	8-719-060-48	DIODE	RB751V-40TE-17		
D520	8-719-404-50	DIODE	MA111-TX		
D521	8-719-404-50	DIODE	MA111-TX		
D522	8-719-404-50	DIODE	MA111-TX		
D524	8-719-060-48	DIODE	RB751V-40TE-17		
D533	8-719-017-58	DIODE	MA8068-TX		
D535	8-719-078-81	DIODE	DF5A6.8FU (TE85R)		
D536	8-719-078-81	DIODE	DF5A6.8FU (TE85R)		
D537	8-719-017-58	DIODE	MA8068-TX		
D540	8-719-057-80	DIODE	MA8180-M-TX		
D541	8-719-017-58	DIODE	MA8068-TX		
D542	8-719-017-58	DIODE	MA8068-TX		
D802	8-719-053-18	DIODE	1SR154-400TE-25		
D803	8-719-053-18	DIODE	1SR154-400TE-25		
D804	8-719-055-30	DIODE	D1FS4A-TA		
D805	8-719-055-30	DIODE	D1FS4A-TA		
D806	8-719-055-33	DIODE	D1FL20U-TA		
D851	8-719-801-78	DIODE	MA152WK-TX		
D852	8-719-801-78	DIODE	MA152WK-TX		
D853	8-719-423-23	DIODE	MA8110-M-TX		
		< FUSE >			
F201	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10A/32V)			
		< FERRITE BEAD >			
FB151	1-414-235-22	FERRITE	0uH		
FB331	1-414-235-22	FERRITE	0uH		
FB332	1-414-235-22	FERRITE	0uH		
FB333	1-414-235-22	FERRITE	0uH		
FB501	1-469-094-21	FERRITE	0uH		
FB502	1-469-094-21	FERRITE	0uH		
FB505	1-469-094-21	FERRITE	0uH		
FB506	1-469-094-21	FERRITE	0uH		
FB507	1-469-094-21	FERRITE	0uH		
FB508	1-469-094-21	FERRITE	0uH		
FB510	1-469-094-21	FERRITE	0uH		
FB511	1-469-094-21	FERRITE	0uH		
FB512	1-469-094-21	FERRITE	0uH		
FB513	1-469-094-21	FERRITE	0uH		
FB515	1-469-094-21	FERRITE	0uH		
FB516	1-469-094-21	FERRITE	0uH		
FB517	1-469-094-21	FERRITE	0uH		
FB518	1-469-094-21	FERRITE	0uH		
FB519	1-469-094-21	FERRITE	0uH		
FB520	1-469-094-21	FERRITE	0uH		
FB521	1-469-094-21	FERRITE	0uH		
		< FILTER >			
FL201	1-234-562-21	FILTER, EMI REMOVAL (SMD)			
FL202	1-234-562-21	FILTER, EMI REMOVAL (SMD)			
FL203	1-234-562-21	FILTER, EMI REMOVAL (SMD)			
FL204	1-234-498-21	FILTER, EMI			
FL205	1-234-498-21	FILTER, EMI			

SUB

Ref. No.	Part No.	Description			Remark
		< IC >			
IC101	8-759-650-68	IC SAA6588T/V2-118			
IC102	8-759-909-71	IC BA4558F-E2			
IC201	8-759-347-49	IC BA3918-V2			
IC301	6-701-403-01	IC TDA7406			
IC302	8-759-422-21	IC NJM4580V (TE2)			
IC303	8-759-422-21	IC NJM4580V (TE2)			
IC304	8-759-486-44	IC TDA7386			
IC372	8-759-422-21	IC NJM4580V (TE2)			
IC391	8-759-284-63	IC TA78M05F (TE16L)			
IC401	8-759-668-14	IC PQ09DZ1U			
IC402	8-759-075-66	IC TA75S01F (TE85R)			
IC411	8-759-527-33	IC LB1930M-TLM			
IC501	6-801-657-01	IC MB90F574APMT-G-LPN1			
IC502	8-759-560-17	IC RS5C348A-E2			
IC503	8-759-682-69	IC XC61CN4302MR			
IC800	8-759-598-63	IC LM2577SX-ADJ			
		< COIL/RESISTOR >			
L101	1-216-864-11	METAL CHIP	0	5%	1/10W
L501	1-414-235-22	FERRITE	0uH		
L800	1-424-911-11	COIL, POWER			
		< MOTOR >			
M501	1-763-834-11	FAN, DC			
		< TRANSISTOR >			
Q151	8-729-901-81	TRANSISTOR	2SC2412K-T-146-R		
Q152	8-729-901-21	TRANSISTOR	DTC144EK-T146		
Q201	8-729-901-81	TRANSISTOR	2SC2412K-T-146-R		
Q202	8-729-901-81	TRANSISTOR	2SC2412K-T-146-R		
Q203	8-729-901-81	TRANSISTOR	2SC2412K-T-146-R		
Q204	8-729-019-00	TRANSISTOR	2SD2394-G		
Q206	8-729-920-85	TRANSISTOR	2SD1664-T101-QR		
Q231	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q232	8-729-901-21	TRANSISTOR	DTC144EK-T146		
Q233	8-729-901-81	TRANSISTOR	2SC2412K-T-146-R		
Q301	8-729-920-21	TRANSISTOR	DTC314TK-T-146		
Q302	8-729-920-21	TRANSISTOR	DTC314TK-T-146		
Q303	8-729-920-21	TRANSISTOR	DTC314TK-T-146		
Q304	8-729-920-21	TRANSISTOR	DTC314TK-T-146		
Q305	8-729-920-21	TRANSISTOR	DTC314TK-T-146		
Q306	8-729-901-21	TRANSISTOR	DTC144EK-T146		
Q351	8-729-901-04	TRANSISTOR	DTA114EK-T146		
Q352	8-729-901-21	TRANSISTOR	DTC144EK-T146		
Q361	8-729-901-21	TRANSISTOR	DTC144EK-T146		
Q372	8-729-106-60	TRANSISTOR	2SB1132-T101-QR		
Q373	8-729-901-21	TRANSISTOR	DTC144EK-T146		
Q521	8-729-901-04	TRANSISTOR	DTA114EK-T146		
Q529	8-729-020-67	TRANSISTOR	XN1A312-TX		
Q530	8-729-020-67	TRANSISTOR	XN1A312-TX		
Q531	8-729-020-67	TRANSISTOR	XN1A312-TX		
Q801	8-729-054-36	TRANSISTOR	UPA1716G-E2		
Q802	8-729-901-21	TRANSISTOR	DTC144EK-T146		
Q851	8-729-019-00	TRANSISTOR	2SD2394-G		
Q852	8-729-020-67	TRANSISTOR	XN1A312-TX		
Q853	8-729-106-60	TRANSISTOR	2SB1132-T101-QR		
Q854	8-729-901-21	TRANSISTOR	DTC144EK-T146		
Q855	8-729-040-14	TRANSISTOR	IMD10A-T108		
		< RESISTOR >			
R101	1-216-797-11	METAL CHIP	10	5%	1/10W
R102	1-216-864-11	METAL CHIP	0	5%	1/10W
R103	1-216-864-11	METAL CHIP	0	5%	1/10W
R105	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R106	1-216-845-11	METAL CHIP	100K	5%	1/10W
R107	1-216-841-11	METAL CHIP	47K	5%	1/10W
R108	1-216-864-11	METAL CHIP	0	5%	1/10W
R151	1-216-853-11	METAL CHIP	470K	5%	1/10W
R152	1-216-821-11	METAL CHIP	1K	5%	1/10W
R153	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R155	1-216-797-11	METAL CHIP	10	5%	1/10W
R156	1-216-817-11	METAL CHIP	470	5%	1/10W
R157	1-216-797-11	METAL CHIP	10	5%	1/10W
R158	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R160	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R161	1-216-833-11	METAL CHIP	10K	5%	1/10W
R162	1-216-833-11	METAL CHIP	10K	5%	1/10W
R163	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R165	1-216-809-11	METAL CHIP	100	5%	1/10W
R166	1-216-845-11	METAL CHIP	100K	5%	1/10W
R167	1-216-857-11	METAL CHIP	1M	5%	1/10W
R168	1-216-809-11	METAL CHIP	100	5%	1/10W
R202	1-216-049-11	RES-CHIP	1K	5%	1/10W
R203	1-216-841-11	METAL CHIP	47K	5%	1/10W
R205	1-216-833-11	METAL CHIP	10K	5%	1/10W
R206	1-216-833-11	METAL CHIP	10K	5%	1/10W
R207	1-216-845-11	METAL CHIP	100K	5%	1/10W
R208	1-216-214-00	RES-CHIP	4.7K	5%	1/8W
R210	1-216-841-11	METAL CHIP	47K	5%	1/10W
R211	1-216-841-11	METAL CHIP	47K	5%	1/10W
R212	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R213	1-216-214-00	RES-CHIP	4.7K	5%	1/8W
R215	1-216-845-11	METAL CHIP	100K	5%	1/10W
R216	1-216-837-11	METAL CHIP	22K	5%	1/10W
R217	1-216-845-11	METAL CHIP	100K	5%	1/10W
R218	1-216-845-11	METAL CHIP	100K	5%	1/10W
R220	1-216-845-11	METAL CHIP	100K	5%	1/10W
R221	1-216-833-11	METAL CHIP	10K	5%	1/10W
R222	1-216-833-11	METAL CHIP	10K	5%	1/10W
R225	1-216-049-11	RES-CHIP	1K	5%	1/10W
R226	1-216-049-11	RES-CHIP	1K	5%	1/10W
R227	1-216-849-11	METAL CHIP	220K	5%	1/10W
R228	1-216-849-11	METAL CHIP	220K	5%	1/10W
R229	1-216-817-11	METAL CHIP	470	5%	1/10W
R301	1-216-841-11	METAL CHIP	47K	5%	1/10W
R302	1-216-809-11	METAL CHIP	100	5%	1/10W
R303	1-216-809-11	METAL CHIP	100	5%	1/10W
R304	1-216-864-11	METAL CHIP	0	5%	1/10W
R305	1-216-809-11	METAL CHIP	100	5%	1/10W
R306	1-216-809-11	METAL CHIP	100	5%	1/10W
R307	1-216-809-11	METAL CHIP	100	5%	1/10W
R308	1-216-809-11	METAL CHIP	100	5%	1/10W
R309	1-216-809-11	METAL CHIP	100	5%	1/10W

SUB

Ref. No.	Part No.	Description			Remark
R310	1-216-809-11	METAL CHIP	100	5%	1/10W
R311	1-216-833-11	METAL CHIP	10K	5%	1/10W
R312	1-216-833-11	METAL CHIP	10K	5%	1/10W
R313	1-216-295-11	SHORT CHIP	0		
R315	1-216-833-11	METAL CHIP	10K	5%	1/10W
R316	1-216-833-11	METAL CHIP	10K	5%	1/10W
R317	1-216-833-11	METAL CHIP	10K	5%	1/10W
R318	1-216-833-11	METAL CHIP	10K	5%	1/10W
R321	1-216-833-11	METAL CHIP	10K	5%	1/10W
R322	1-216-833-11	METAL CHIP	10K	5%	1/10W
R323	1-216-073-00	RES-CHIP	10K	5%	1/10W
R324	1-216-073-00	RES-CHIP	10K	5%	1/10W
R326	1-216-809-11	METAL CHIP	100	5%	1/10W
R327	1-216-809-11	METAL CHIP	100	5%	1/10W
R328	1-216-809-11	METAL CHIP	100	5%	1/10W
R330	1-216-809-11	METAL CHIP	100	5%	1/10W
R331	1-216-809-11	METAL CHIP	100	5%	1/10W
R332	1-216-025-11	RES-CHIP	100	5%	1/10W
R333	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R334	1-216-025-11	RES-CHIP	100	5%	1/10W
R335	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R337	1-216-833-11	METAL CHIP	10K	5%	1/10W
R338	1-216-833-11	METAL CHIP	10K	5%	1/10W
R340	1-216-833-11	METAL CHIP	10K	5%	1/10W
R341	1-216-833-11	METAL CHIP	10K	5%	1/10W
R342	1-216-821-11	METAL CHIP	1K	5%	1/10W
R343	1-216-821-11	METAL CHIP	1K	5%	1/10W
R344	1-216-833-11	METAL CHIP	10K	5%	1/10W
R345	1-216-821-11	METAL CHIP	1K	5%	1/10W
R346	1-216-821-11	METAL CHIP	1K	5%	1/10W
R347	1-216-295-11	SHORT CHIP	0		
R348	1-216-295-11	SHORT CHIP	0		
R349	1-216-295-11	SHORT CHIP	0		
R350	1-216-295-11	SHORT CHIP	0		
R351	1-216-833-11	METAL CHIP	10K	5%	1/10W
R352	1-216-821-11	METAL CHIP	1K	5%	1/10W
R353	1-216-295-11	SHORT CHIP	0		
R354	1-216-295-11	SHORT CHIP	0		
R356	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R357	1-216-805-11	METAL CHIP	47	5%	1/10W
R362	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R363	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R365	1-216-864-11	METAL CHIP	0	5%	1/10W
R366	1-216-295-11	SHORT CHIP	0		
R373	1-216-833-11	METAL CHIP	10K	5%	1/10W
R376	1-216-833-11	METAL CHIP	10K	5%	1/10W
R381	1-216-833-11	METAL CHIP	10K	5%	1/10W
R383	1-216-833-11	METAL CHIP	10K	5%	1/10W
R386	1-216-833-11	METAL CHIP	10K	5%	1/10W
R387	1-216-833-11	METAL CHIP	10K	5%	1/10W
R388	1-216-833-11	METAL CHIP	10K	5%	1/10W
R389	1-216-833-11	METAL CHIP	10K	5%	1/10W
R391	1-216-833-11	METAL CHIP	10K	5%	1/10W
R393	1-216-833-11	METAL CHIP	10K	5%	1/10W
R397	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R398	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R399	1-216-864-11	METAL CHIP	0	5%	1/10W

Ref. No.	Part No.	Description			Remark
R431	1-218-236-11	RES-CHIP	1	10%	1/4W
R434	1-216-833-11	METAL CHIP	10K	5%	1/10W
R435	1-216-845-11	METAL CHIP	100K	5%	1/10W
R437	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R438	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R440	1-218-236-11	RES-CHIP	1	10%	1/4W
R501	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R516	1-216-845-11	METAL CHIP	100K	5%	1/10W
R517	1-216-864-11	METAL CHIP	0	5%	1/10W
R519	1-216-864-11	METAL CHIP	0	5%	1/10W
R522	1-216-864-11	METAL CHIP	0	5%	1/10W
R523	1-216-864-11	METAL CHIP	0	5%	1/10W
R525	1-216-864-11	METAL CHIP	0	5%	1/10W
R527	1-216-864-11	METAL CHIP	0	5%	1/10W
R528	1-216-815-11	METAL CHIP	330	5%	1/10W
R529	1-216-809-11	METAL CHIP	100	5%	1/10W
R530	1-216-864-11	METAL CHIP	0	5%	1/10W
R531	1-216-864-11	METAL CHIP	0	5%	1/10W
R532	1-216-864-11	METAL CHIP	0	5%	1/10W
R533	1-216-864-11	METAL CHIP	0	5%	1/10W
R537	1-216-864-11	METAL CHIP	0	5%	1/10W
R538	1-216-864-11	METAL CHIP	0	5%	1/10W
R540	1-216-864-11	METAL CHIP	0	5%	1/10W
R542	1-216-864-11	METAL CHIP	0	5%	1/10W
R546	1-216-845-11	METAL CHIP	100K	5%	1/10W
R550	1-216-864-11	METAL CHIP	0	5%	1/10W
R554	1-216-845-11	METAL CHIP	100K	5%	1/10W
R559	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R562	1-216-837-11	METAL CHIP	22K	5%	1/10W
R563	1-216-864-11	METAL CHIP	0	5%	1/10W
R564	1-216-864-11	METAL CHIP	0	5%	1/10W
R567	1-216-864-11	METAL CHIP	0	5%	1/10W
R568	1-216-845-11	METAL CHIP	100K	5%	1/10W
R569	1-216-845-11	METAL CHIP	100K	5%	1/10W
R570	1-216-864-11	METAL CHIP	0	5%	1/10W
R571	1-216-864-11	METAL CHIP	0	5%	1/10W
R572	1-216-864-11	METAL CHIP	0	5%	1/10W
R573	1-216-864-11	METAL CHIP	0	5%	1/10W
R574	1-216-864-11	METAL CHIP	0	5%	1/10W
R578	1-216-845-11	METAL CHIP	100K	5%	1/10W
R580	1-216-833-11	METAL CHIP	10K	5%	1/10W
R581	1-216-833-11	METAL CHIP	10K	5%	1/10W
R582	1-216-845-11	METAL CHIP	100K	5%	1/10W
R585	1-216-845-11	METAL CHIP	100K	5%	1/10W
R592	1-216-864-11	METAL CHIP	0	5%	1/10W
R593	1-216-864-11	METAL CHIP	0	5%	1/10W
R595	1-216-821-11	METAL CHIP	1K	5%	1/10W
R599	1-216-833-11	METAL CHIP	10K	5%	1/10W
R601	1-216-845-11	METAL CHIP	100K	5%	1/10W
R602	1-216-841-11	METAL CHIP	47K	5%	1/10W
R606	1-216-864-11	METAL CHIP	0	5%	1/10W
R607	1-216-864-11	METAL CHIP	0	5%	1/10W
R610	1-216-864-11	METAL CHIP	0	5%	1/10W
R611	1-216-845-11	METAL CHIP	100K	5%	1/10W
R612	1-216-845-11	METAL CHIP	100K	5%	1/10W
R613	1-216-845-11	METAL CHIP	100K	5%	1/10W
R627	1-216-864-11	METAL CHIP	0	5%	1/10W
R638	1-216-864-11	METAL CHIP	0	5%	1/10W

SUB SWITCH

Ref. No.	Part No.	Description			Remark
R641	1-216-853-11	METAL CHIP	470K	5%	1/10W
R642	1-216-845-11	METAL CHIP	100K	5%	1/10W
R644	1-216-845-11	METAL CHIP	100K	5%	1/10W
R645	1-216-864-11	METAL CHIP	0	5%	1/10W
R646	1-216-845-11	METAL CHIP	100K	5%	1/10W
R648	1-216-841-11	METAL CHIP	47K	5%	1/10W
R650	1-216-845-11	METAL CHIP	100K	5%	1/10W
R681	1-216-845-11	METAL CHIP	100K	5%	1/10W
R682	1-216-845-11	METAL CHIP	100K	5%	1/10W
R687	1-216-295-11	SHORT CHIP	0		
R698	1-216-864-11	METAL CHIP	0	5%	1/10W
R800	1-216-230-00	RES-CHIP	22K	5%	1/8W
R801	1-216-230-00	RES-CHIP	22K	5%	1/8W
R803	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W
R804	1-218-754-11	METAL CHIP	120K	0.5%	1/10W
R805	1-216-296-11	SHORT CHIP	0		
R806	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R807	1-218-704-11	METAL CHIP	3.3K	0.5%	1/16W
R808	1-216-833-11	METAL CHIP	10K	5%	1/10W
R809	1-216-864-11	METAL CHIP	0	5%	1/10W
R851	1-216-821-11	METAL CHIP	1K	5%	1/10W
R852	1-216-833-11	METAL CHIP	10K	5%	1/10W
R853	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R855	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R1501	1-216-864-11	METAL CHIP	0	5%	1/10W
R1502	1-216-864-11	METAL CHIP	0	5%	1/10W
R1541	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1547	1-216-809-11	METAL CHIP	100	5%	1/10W
R1552	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1553	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1562	1-216-864-11	METAL CHIP	0	5%	1/10W
R1564	1-216-864-11	METAL CHIP	0	5%	1/10W
R1565	1-216-864-11	METAL CHIP	0	5%	1/10W
R1582	1-216-864-11	METAL CHIP	0	5%	1/10W
R1587	1-216-864-11	METAL CHIP	0	5%	1/10W
R1588	1-216-864-11	METAL CHIP	0	5%	1/10W
R1589	1-219-286-11	RES-CHIP	680	2%	1/16W
R1590	1-216-864-11	METAL CHIP	0	5%	1/10W

< COMPOSITION CIRCUIT BLOCK >

RB151	1-234-523-21	RES, CHIP NETWORK 0	(3216)
RB152	1-234-523-21	RES, CHIP NETWORK 0	(3216)
RB153	1-234-523-21	RES, CHIP NETWORK 0	(3216)
RB501	1-233-576-11	RES, CHIP NETWORK 100	
RB502	1-234-523-21	RES, CHIP NETWORK 0	(3216)
RB512	1-233-575-11	RES, CHIP NETWORK 22	
RB515	1-233-810-21	RES, NETWORK 100K	(3216)

< TRANSFORMER >

T800	1-437-757-11	TRANSFORMER, DC-DC CONVERTER

< THERMISTOR (POSITIVE) >

THP501	1-810-812-21	THERMISTOR, NTC (1608)

< TUNER >

TUX101	A-3220-812-A	TUNER UNIT (TUX-020)

Ref. No.	Part No.	Description	Remark

< VIBRATOR >

X151	1-781-536-11	VIBRATOR, CRYSTAL (4.332MHz)
X501	1-767-280-21	VIBRATOR, CRYSTAL (3.68MHz)
X502	1-781-696-31	VIBRATOR, CRYSTAL (32.768kHz)

****

	A-3274-407-A	SWITCH MOUNTED BOARD, COMPLETE

****

For the parts on the SWITCH board, replace the entire mounted board.

****

MISCELLANEOUS

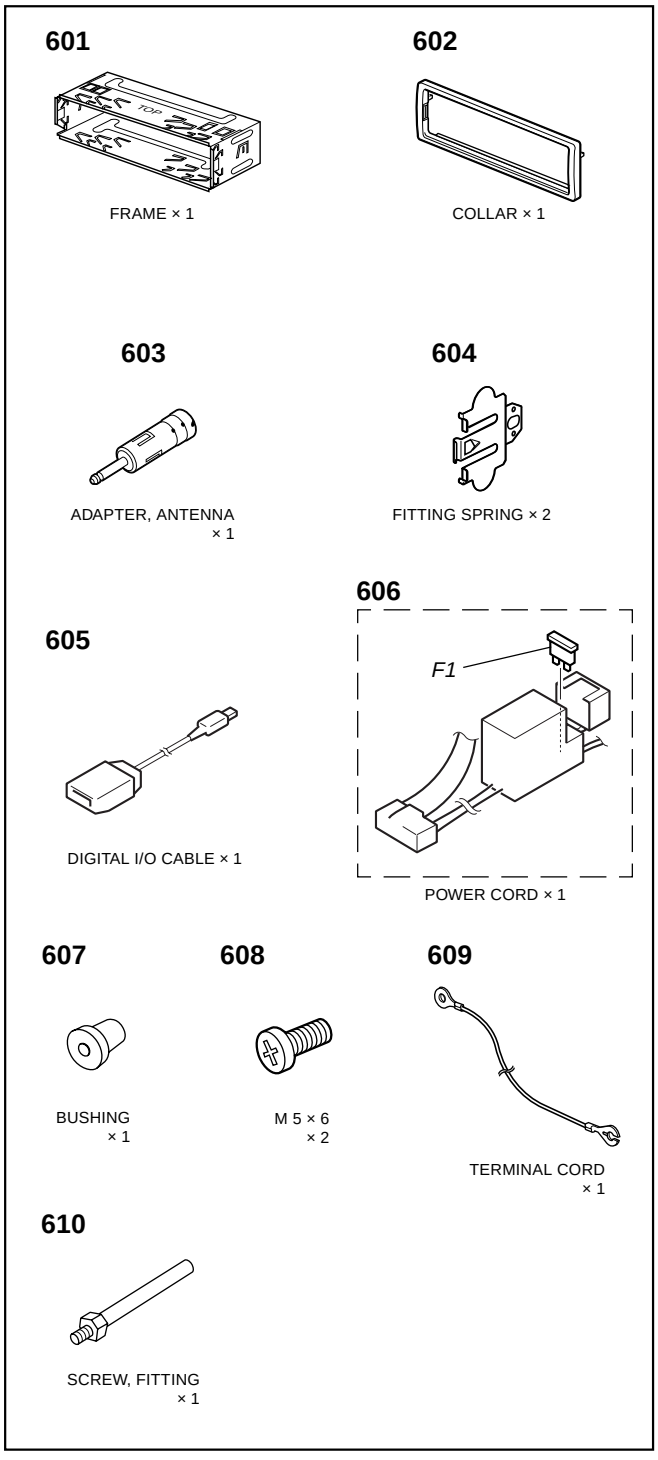
****

10	1-824-017-11	CORD, CONNECTION (DIGITAL I/O CABLE)
14	1-790-926-71	CORD (WITH CONNECTOR) (POWER)
18	1-761-522-11	MOUNTED FLEXIBLE PWB
156	1-477-305-11	UNIT, HARDDISK DRIVE (2.5inch)
157	1-761-552-11	MOUNTED PWB (HDD CONNECTOR)
163	1-824-053-11	CABLE, FLEXIBLE FLAT 50P
415	1-683-084-11	D40P FLEXIBLE BOARD
416	1-763-734-12	MOTOR FLEXIBLE BOARD
⚠421	A-3013-977-A	OP ASSY (CDM-3021EBG)
F1	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10A/32V)
FL900	1-518-814-11	INDICATOR TUBE, FLUORESCENT
M102	A-3328-299-A	MOTOR BLOCK ASSY, SLED
M103	X-3381-240-1	MOTOR ASSY, LE (TRAY OPEN/CLOSE)
M601	A-3315-622-A	MOTOR ASSY (FRONT PANEL OPEN/CLOSE)

****

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
		ACCESSORIES	
		**********	
	3-242-072-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, GERMAN, FRENCH, ITALIAN, DUTCH)	
	3-244-264-11	MANUAL, INSTRUCTION (ENGLISH)	
	3-244-264-21	MANUAL, INSTRUCTION (GERMAN)	
	3-244-264-31	MANUAL, INSTRUCTION (FRENCH)	
	3-244-264-41	MANUAL, INSTRUCTION (ITALIAN)	
	3-244-264-51	MANUAL, INSTRUCTION (DUTCH)	
**********			
		PARTS FOR INSTALLATION AND CONNECTIONS	
		**********	
601	3-009-613-21	FRAME	
602	3-238-544-01	COLLAR	
603	1-465-459-21	ADAPTER, ANTENNA	
604	3-027-138-01	SPRING, FITTING	
605	1-824-017-11	CORD, CONNECTION (DIGITAL I/O CABLE)	
606	1-790-926-71	CORD (WITH CONNECTOR) (POWER)	
607	3-349-410-01	BUSHING	
608	X-3382-379-1	SCREW ASSY (M5X6)	
609	1-575-616-51	CORD (WITH TERMINAL)	
610	3-386-828-01	SCREW, FITTING	
F1	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10A/32V)	



REVISION HISTORY

Clicking the version allows you to jump to the revised page.
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Ver.	Date	Description of Revision
1.0	2002.09	New